

## Regulatory Indicators for Sustainable Energy (RISE) 2016 Country Data - Belgium

### Energy Efficiency

| Indicator   | Score        |
|---|--------------|
| National energy efficiency planning                       | 66.67        |
| Energy efficiency entities                                | 100          |
| Information provided to consumers about electricity usage | 61.11        |
| EE incentives from electricity rate structures            | 88.89        |
| Incentives & mandates: large consumers                    | 88.89        |
| Incentives & mandates: public sector                      | 50           |
| Incentives & mandates: utilities                          | 75           |
| Financing mechanisms for energy efficiency                | 91.67        |
| Minimum energy efficiency performance standards           | 66.67        |
| Energy labeling systems                                   | 66.67        |
| Building energy codes                                     | 93.33        |
| Carbon Pricing  | 70           |
| <b>Total</b>  | <b>76.57</b> |

### Renewable Energy

| Indicator  | Score     |
|--|-----------|
| Legal framework for renewable energy                   | 100       |
| Planning for renewable energy expansion                | 60        |
| Incentives and regulatory support for renewable energy | 63        |
| Attributes of financial and regulatory incentives      | 56        |
| Network connection and pricing                         | 83        |
| Counterparty risk                                      | 100       |
| Carbon pricing and monitoring                          | 70        |
| <b>Total</b>   | <b>76</b> |

## Regulatory Indicators for Sustainable Energy (RISE)

**Overall Score**

**50.86**

### Energy Efficiency

| <b>National energy efficiency planning</b>                               | <b>Score</b> | <b>66.67</b>                               |
|--|--------------|--|
| Is there legislation or a national action plan that aims to increase EE? |              | Yes  |
| Name of EE legislation or action plan                                    |              | Belgium EU National Energy Efficiency Plan |
| Is there an energy efficiency goal or target at the national level?      |              | Yes  |
| Natonal target details   |              | 9.6 Mtoe primary energy savings by 2020    |
| Is there a target for the residential sector?                            |              | No   |
| Target details   |              | 0  |
| Does the target have a milestone or deadline?                            |              | No   |
| Is there a commercial servcies sector target?                            |              | No   |
| Target details   |              | 0  |
| Does the target have a milestone or deadline?                            |              | No   |
| Is there an industrial sector target?                                    |              | No   |
| Target details   |              | 0  |
| Does the target have a milestone or deadline?                            |              | No   |
| Is there a power sector target?  |              | No   |
| Target details   |              | 0  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Does the target have a milestone or deadline? | No |
|---|----|

| Energy efficiency entities   | Score               | 100 |
|--|---------------------|-----|
| Are there governmental and/or independent bodies dedicated to setting EE strategy?   | Yes                 |     |
| Name of entity   | Ministry of Energy  |     |
| Are there governmental and/or independent bodies dedicated to setting EE standards?  | Yes                 |     |
| Name of entity   | Ministry of Economy |     |
| Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?  | Yes                 |     |
| Name of entity   | 0                   |     |
| Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?  | Yes                 |     |
| Name of entity   | 0                   |     |
| Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?                                   | Yes                 |     |
| Name of entity   | Ministry of economy |     |
| Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?                                    | Yes                 |     |
| Name of entity   | 0                   |     |
| Are there governmental and/or independent bodies dedicated to selecting and/or approving third party auditors tasked with certifying EE standards? | Yes                 |     |
| Name of entity   | Idem                |     |

## Regulatory Indicators for Sustainable Energy (RISE)

| Information provided to consumers about electricity usage  | Score | 61.11 |
|--|-------|-------|
| Residential customers  |       |       |
| Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means? |       | Yes   |
| Commercial customers   |       |       |
| Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means? |       | Yes   |
| Industrial customers   |       |       |
| Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means? |       | Yes   |
| Residential customers  |       |       |
| At what intervals do customers receive these reports (times per year)?                               |       | 1     |
| Do the reports include the price levels customers pay for energy usage?                              |       | Yes   |
| Commercial customers   |       |       |
| At what intervals do customers receive these reports (times per year)?                               |       | 12    |
| Do the reports include the price levels customers pay for energy usage?                              |       | Yes   |
| Industrial customers   |       |       |
| At what intervals do customers receive these reports (times per year)?                               |       | 12    |
| Do the reports include the price levels customers pay for energy usage?                              |       | Yes   |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Does the regulator track utilities' compliance with laws for providing energy usage information to customers?        | Yes |
| Residential customers  |     |
| Do customers receive a bill or report which compares them to other users in the same region and/or usage class?      | No  |
| Method of comparison   | N/A |
| Commercial customers   |     |
| Do customers receive a bill or report which compares them to other users in the same region and/or usage class?      | No  |
| Method of comparison   | N/A |
| Industrial customers   |     |
| Do customers receive a bill or report which compares them to other users in the same region and/or usage class?      | No  |
| Method of comparison   | N/A |
| Residential customers  |     |
| Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time? | Yes |
| Commercial customers   |     |
| Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time? | Yes |
| Industrial customers   |     |
| Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time? | Yes |
| All customers  |     |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Can customers access real time feedback on energy usage (for either prepaid or post-paid systems)?  | No |
| Do customers have the ability to manage energy usage levels remotely (through apps or other technology mediums that can track real time usage)? | No |

| <b>EE incentives from electricity rate structures</b> | <b>Score</b> | <b>88.89</b> |
|---|--------------|--------------|
| Residential customers                                 |              |              |
| Are customers charged a flat fee (per connection)?    | No           |              |
| Are customers charged constant block rates?           | Yes          |              |
| Are customers charged declining block rates?          | No           |              |
| Are customers charged increasing block rates?         | No           |              |
| Commercial customers                                  |              |              |
| Are customers charged a flat fee (per connection)?    | No           |              |
| Are customers charged constant block rates?           | Yes          |              |
| Are customers charged declining block rates?          | No           |              |
| Are customers charged increasing block rates?         | No           |              |
| Industrial customers                                  |              |              |
| Are customers charged a flat fee (per connection)?    | No           |              |
| Are customers charged constant block rates?           | Yes          |              |
| Are customers charged declining block rates?          | No           |              |
| Are customers charged increasing block rates?         | No           |              |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Residential customers   |     |
| Do customers pay energy charges (per kWh)?  | Yes |
| Do customers pay demand charges (per kW)?   | No  |
| Do customers pay reactive power charges (per kVAR)?                                     | No  |
| Commercial customers  |     |
| Do customers pay energy charges (per kWh)?  | Yes |
| Do customers pay demand charges (per kW)?   | Yes |
| Do customers pay reactive power charges (per kVAR)?                                     | Yes |
| Industrial customers  |     |
| Do customers pay energy charges (per kWh)?  | Yes |
| Do customers pay demand charges (per kW)?   | Yes |
| Do customers pay reactive power charges (per kVAR)?                                     | Yes |
| Residential customers   |     |
| Are customers charged based on real-time pricing?                                       | No  |
| Are customers charged based on variable peak pricing?                                   | No  |
| Are customers charged based on critical peak pricing?                                   | No  |
| Are tariffs adjusted according to seasons?  | No  |
| Do customers pay according to time-of-day electricity use or receive peak-time rebates? | Yes |
| Commercial customers  |     |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Are customers charged based on real-time pricing?                                       | No  |
| Are customers charged based on variable peak pricing?                                   | No  |
| Are customers charged based on critical peak pricing?                                   | No  |
| Are tariffs adjusted according to seasons?  | No  |
| Do customers pay according to time-of-day electricity use or receive peak-time rebates? | Yes |
| Industrial customers  |     |
| Are customers charged based on real-time pricing?                                       | No  |
| Are customers charged based on variable peak pricing?                                   | No  |
| Are customers charged based on critical peak pricing?                                   | No  |
| Are tariffs adjusted according to seasons?  | No  |
| Do customers pay according to time-of-day electricity use or receive peak-time rebates? | Yes |

| Incentives & mandates: large consumers   | Score | 88.89                                  |
|--|-------|--|
| What is the threshold for classifying large consumers?   |       | overall energy consumption 0.5 PJ/year |
| Large consumer EE mandate/incentive regulations  |       | Leefmilieu Natuur en Energie           |
| Is it required for the consumption and/or savings of large-scale energy users to be tracked and documented on a regular basis? |       | Yes                                    |
| Are efficiency targets mandated for large consumers?   |       | No                                     |
| Details  |       | 0                                      |



## Regulatory Indicators for Sustainable Energy (RISE)

|  |  |
|--|--|
| Are energy audits mandated for large consumers?  | Yes                                    |
| Are energy efficiency progress reports mandated for large consumers?   | Yes                                    |
| Interval of reports  | yearly                                 |
| Are energy-management systems mandated for large consumers?  | No                                     |
| Details  | 0                                      |
| Are there penalties in place for non-compliance with regulatory obligations for large consumers?   | Yes                                    |
| Is there a measurement and verification program in place?  | Yes                                    |
| Is verification done by a third party?   | Yes                                    |
| Are there financial incentives for large consumers to invest in energy efficiency?   | No                                     |
| Details  | :                                      |
| Are there tax incentives for large consumers to invest in energy efficiency?   | Yes                                    |
| Are there other incentives for large consumers to invest in energy efficiency?   | No                                     |
| Details  | Fiscal measures (tax deduction 13.5 %) |
| Is there a program to publicly recognize large-scale users that have achieved significant energy savings measures?                                     | Yes                                    |
| Are energy savings and/or financial savings publicized?  | Yes                                    |
| Does the program offer assistance (from a government or independent entity) to large-scale users to identify energy savings investments opportunities? | No                                     |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |            |
|---|------------|
| Primary Energy Consumption (MJ - latest GTF data from 2012) | 2342512.09 |
|---|------------|

| Incentives & mandates: public sector   | Score | 50                             |
|--|-------|--------------------------------|
| Are there binding energy savings obligations for public buildings?   |       | No                             |
| Are energy savings from efficiency activities at public buildings tracked (either in-house or by a third party)?   |       | Yes                            |
| Are there binding energy savings obligations for other public facilities (may include water supply, wastewater services, municipal solid waste, street lighting, transportation, and heat supply)? |       | No                             |
| Are energy savings from efficiency activities at other public facilities tracked?  |       | Yes                            |
| Is there a specific policy or mandated guidelines for public procurement of energy-efficient products and services?  |       | Yes                            |
| Public procurement guidelines for EE   |       | Belgium<br>Overheidsopdrachten |
| Do public budgeting regulations and practices allow public entities to retain energy savings?  |       | No                             |
| Public budgeting regulations for EE  |       |                                |

| Incentives & mandates: utilities   | Score | 75  |
|--|-------|---|
| Name of utility energy efficiency regulation program                           |       | Belgian Government<br>Regulation<br>VR214165DOC.759 |
| Electricity generation   |       |   |
| Are utilities required to carry out energy efficiency activities in this area? |       | Yes   |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |                    |
|---|--------------------|
| Details   | action obligations |
| Are energy savings or other target indicators measured to track performance in meeting EE requirements? | Yes                |
| Are the requirements measured/validated by an independent third party?                                  | No                 |
| Are there penalties in place for non-compliance with EE requirements?                                   | Yes                |
| Are there mandates or incentives for new and/or brownfield co-generation?                               | Yes                |
| Transmission & distribution   |                    |
| Are utilities required to carry out energy efficiency activities in this area?                          | Yes                |
| Details   | action obligations |
| Are energy savings or other target indicators measured to track performance in meeting EE requirements? | Yes                |
| Are the requirements measured/validated by an independent third party?                                  | No                 |
| Are there penalties in place for non-compliance with EE requirements?                                   | Yes                |
| Demand-side management -  |                    |
| Are utilities required to carry out energy efficiency activities in this area?                          | No                 |
| Details   | 0                  |
| Are energy savings or other target indicators measured to track performance in meeting EE requirements? | No                 |
| Are the requirements measured/validated by an independent third party?                                  | No                 |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Are there penalties in place for non-compliance with EE requirements?  | No  |
| Is there a demand-side management department within the selected utility?  | No  |
| Do utilities provide customers incentives for demand response, such as peak-time rebates?  | Yes |
| Is there public budget funding available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?                                  | No  |
| Is there compensation for revenue losses via a tracking account available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? | No  |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?                        | No  |
| Are these available as government-driven financing mechanisms?   | No  |
| Are there credit lines available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?  | No  |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?                        | No  |
| Are these available as government-driven financing mechanisms?   | No  |
| Are there partial risk guarantees available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?                               | No  |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?                        | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Are these available as government-driven financing mechanisms?  | No  |
| Is there program cost recovery available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?           | Yes |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No  |
| Are these available as government-driven financing mechanisms?  | Yes |
| Is there ESCO financing available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?                  | Yes |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | Yes |
| Are these available as government-driven financing mechanisms?  | No  |
| Is there on-bill financing/re-payment available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?    | Yes |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | Yes |
| Are these available as government-driven financing mechanisms?  | No  |
| Are there any other financing mechanisms available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? | 0   |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Are these available as government-driven financing mechanisms? | No |
|--|----|

| <b>Financing mechanisms for energy efficiency</b>   | <b>Score</b> | <b>91.67</b> |
|---|--------------|--------------|
| Residential sector  |              |              |
| Are there tax incentives available for energy efficiency investments?   | Yes          |              |
| Are there discounted "green" mortgages available for energy efficiency investments?   | No           |              |
| Is on-bill financing/re-payment available for energy efficiency investments?  | Yes          |              |
| Are credit lines available for energy efficiency investments?   | Yes          |              |
| Are energy services agreements or ESCOs available for energy efficiency investments?  | No           |              |
| Are green bonds available for energy efficiency investments?  | No           |              |
| Is vendor credit and/or leasing available for energy efficiency investments?  | No           |              |
| Are partial risk guarantees available for energy efficiency investments?  | No           |              |
| Are there any other financing mechanisms available for energy efficiency investments?   | No           |              |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No           |              |
| Are these available as government-driven financing mechanisms?  | No           |              |

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| Details   |     |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No  |
| Are these available as government-driven financing mechanisms?  | No  |
| Commercial services sector  |     |
| Are there tax incentives available for energy efficiency investments?   | Yes |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Are there discounted "green" mortgages available for energy efficiency investments?   | No  |
| Is on-bill financing/re-payment available for energy efficiency investments?  | Yes |
| Are credit lines available for energy efficiency investments?   |     |
| Are energy services agreements or ESCOs available for energy efficiency investments?  | Yes |
| Are green bonds available for energy efficiency investments?  | No  |
| Is vendor credit and/or leasing available for energy efficiency investments?  | No  |
| Are partial risk guarantees available for energy efficiency investments?  | No  |
| Are there any other financing mechanisms available for energy efficiency investments?   | No  |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No  |
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| Are these available as government-driven financing mechanisms?  | No  |
| Details   |     |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No  |
| Are these available as government-driven financing mechanisms?  | No  |
| Industrial sector   |     |
| Are there tax incentives available for energy efficiency investments?   | Yes |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Are there discounted "green" mortgages available for energy efficiency investments?   | No  |
| Is on-bill financing/re-payment available for energy efficiency investments?  | Yes |
| Are credit lines available for energy efficiency investments?   | No  |
| Are energy services agreements or ESCOs available for energy efficiency investments?  | No  |
| Are green bonds available for energy efficiency investments?  | No  |
| Is vendor credit and/or leasing available for energy efficiency investments?  | No  |
| Are partial risk guarantees available for energy efficiency investments?  | No  |
| Are there any other financing mechanisms available for energy efficiency investments?   | No  |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No  |
| Are these available as government-driven financing mechanisms?  | No  |
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## Regulatory Indicators for Sustainable Energy (RISE)

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| Are these available as government-driven financing mechanisms?  | No |
| Details   |    |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |

|  |              |              |
|--|--------------|--------------|
| <b>Minimum energy efficiency performance standards</b> | <b>Score</b> | <b>66.67</b> |
| EE standards regulations                               |              | EU Ecodesign |

## Regulatory Indicators for Sustainable Energy (RISE)

|   | requirements      |
|---|-------------------|
| Refrigerators   |                   |
| Have minimum energy performance standards been adopted?                 | Yes               |
| Details of standards  | EEI 1.62          |
| Is there a verification program in place?                               | Yes               |
| Is it carried out by a third party?                                     | Yes               |
| Is there a penalty for non-compliance with energy efficiency standards? | Yes               |
| Are the standards based on external/international standards?            | Yes               |
| Lighting equipment  |                   |
| Have minimum energy performance standards been adopted?                 | Yes               |
| Details of standards  | EEI < 0.2 to 1.75 |
| Is there a verification program in place?                               | Yes               |
| Is it carried out by a third party?                                     | Yes               |
| Is there a penalty for non-compliance with energy efficiency standards? | Yes               |
| Are the standards based on external/international standards?            | Yes               |
| Industrial electric motors  |                   |
| Have minimum energy performance standards been adopted?                 | Yes               |
| Details of standards  | EE >75.9 to 96 %  |
| Is there a verification program in place?                               | Yes               |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Is it carried out by a third party?                                     | Yes |
| Is there a penalty for non-compliance with energy efficiency standards? | Yes |
| Are the standards based on external/international standards?            | Yes |
| Other industrial equipment  |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | 0   |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |
| Light duty vehicles   |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | 0   |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |
| Heavy duty vehicles   |     |
| Have minimum energy performance standards been adopted?                 | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Details of standards  | 0  |
| Is there a verification program in place?                               | No |
| Is it carried out by a third party?                                     | No |
| Is there a penalty for non-compliance with energy efficiency standards? | No |
| Are the standards based on external/international standards?            | No |

| <b>Energy labeling systems</b>                                    | <b>Score</b> | <b>66.67</b> |
|---|--------------|--------------|
| Refrigerators   |              |              |
| Have energy efficiency labeling schemes been adopted?             | Yes          |              |
| Is the labeling scheme mandatory?                                 | Yes          |              |
| Is the labeling scheme based on external/international standards? | Yes          |              |
| Air conditioners  |              |              |
| Have energy efficiency labeling schemes been adopted?             | Yes          |              |
| Is the labeling scheme mandatory?                                 | Yes          |              |
| Is the labeling scheme based on external/international standards? | Yes          |              |
| Lighting equipment  |              |              |
| Have energy efficiency labeling schemes been adopted?             | Yes          |              |
| Is the labeling scheme mandatory?                                 | Yes          |              |
| Is the labeling scheme based on external/international standards? | Yes          |              |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Industrial electric motors  |     |
| Have energy efficiency labeling schemes been adopted?             | Yes |
| Is the labeling scheme mandatory?                                 | Yes |
| Is the labeling scheme based on external/international standards? | Yes |
| Other industrial equipment  |     |
| Have energy efficiency labeling schemes been adopted?             | No  |
| Is the labeling scheme mandatory?                                 | No  |
| Is the labeling scheme based on external/international standards? | No  |
| Light duty vehicles   |     |
| Have energy efficiency labeling schemes been adopted?             | No  |
| Is the labeling scheme mandatory?                                 | No  |
| Is the labeling scheme based on external/international standards? | No  |
| Heavy duty vehicles   |     |
| Have energy efficiency labeling schemes been adopted?             | No  |
| Is the labeling scheme mandatory?                                 | No  |
| Is the labeling scheme based on external/international standards? | No  |

| <b>Building energy codes</b>                                     | <b>Score</b> | <b>93.33</b> |
|--|--------------|--------------|
| Are there energy efficiency codes for new residential buildings? |              | Yes          |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |              |
|--|--------------|
| Are there energy efficiency codes for new commercial buildings?  | Yes          |
| Is the energy efficiency code for new residential buildings its own stand-alone, separate code or part of the overall building code?       | Yes          |
| Is the energy efficiency code for new commercial buildings its own stand-alone, separate code or part of the overall building code?        | Yes          |
| Is there any provision for regular updates to the code for new residential buildings?  | No           |
| Is there any provision for regular updates to the code for new commercial buildings?   | No           |
| EE building code regulations   | EPBD Belgium |
| When was the code last updated for residential buildings?  | 2014         |
| When was the code last updated for commercial buildings?   | 2014         |
| Is there a system to ensure compliance with building energy efficiency codes?  | Yes          |
| Is it carried out by a third party?  | Yes          |
| Are renovated residential buildings required to meet a building energy code?   | Yes          |
| Are renovated commercial buildings required to meet a building energy code?  | Yes          |
| Is the energy efficiency code for renovated residential buildings different from the code for new buildings?                               | Yes          |
| Is the energy efficiency code for renovated commercial buildings different from the code for new buildings?                                | Yes          |
| Is the energy efficiency code for renovated residential buildings its own stand-alone, separate code or part of the overall building code? | Yes          |



## Regulatory Indicators for Sustainable Energy (RISE)

|  |  |
|--|--|
| Is the energy efficiency code for renovated commercial buildings its own stand-alone, separate code or part of the overall building code?  | Yes                                      |
| Is there any provision for regular updates to the code for renovated residential buildings?  | No                                       |
| Is there any provision for regular updates to the code for renovated commercial buildings?   | No                                       |
| Is there a mandatory standardized rating or labeling system for the energy performance of existing buildings?  | Yes                                      |
| Is the labeling scheme or rating adopted from external standards?  | Yes                                      |
| Are commercial and residential buildings required to disclose property energy usage at the point of sale or when leased?   | Yes                                      |
| Are large commercial and residential buildings required to disclose property energy usage annually?  | No                                       |
| Are there mandates or targets for new building stocks to achieve high quality energy efficiency certifications, such as LEED (Leadership in Energy & Environmental Design) (e.g. percentage of new building stocks that must be LEED certified)? | Yes                                      |
| Details  | financial allowance                      |
| LEED incentives  | No                                       |
| Local program details  | certification according to EPB Directive |

| <b>Carbon Pricing</b>  | <b>Score</b> | <b>70</b> |
|--|--------------|-----------|
| Is there a carbon pricing mechanism in place?  | Yes          |           |
| For any carbon pricing mechanism (e.g. carbon tax, emission trading system), what is the portion of national GHG emissions covered)? | 0.4          |           |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Is there a monitoring, reporting and verification system for greenhouse gas emissions in place? | Yes |
|---|-----|

### Renewable Energy

| Legal framework for renewable energy   | Score | 100 |
|--|-------|-----|
| Does a legal framework for renewable energy development exist?                 |       | Yes |
| Name of the Law  |       | 0   |
| Is private sector ownership of renewable energy generation legally authorized? |       | Yes |

| Planning for renewable energy expansion                                     | Score | 60                                      |
|---|-------|---|
| Does an official renewable energy target exist?                             |       | Yes                                     |
| Overall target  |       | 13.3% of gross final energy consumption |
| Solar target  |       | 1.139 GWh                               |
| Wind target   |       | 10.474 GWh                              |
| Hydro target  |       | 440 GWh                                 |
| Biomass target  |       | 11.038 GWh                              |
| Geothermal target   |       | 29 GWh                                  |
| Does a renewable energy action plan or strategy to attain the target exist? |       | Yes                                     |
| Name of the action plan   |       | 0                                       |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |      |
|---|------|
| Does the plan or strategy define the amount of investment necessary to meet the RE target?                                | No   |
| The amount of investment identified   | 0    |
| Is there an institution responsible for tracking progress in renewable energy development?                                | Yes  |
| Name of the institution   | 0    |
| Does an electricity generation plan that includes renewable energy development exist?                                     | Yes  |
| Name of the generation plan   | 0    |
| Is the expansion plan based on a probabilistic approach?  | No   |
| Does the current transmission planning consider renewable energy scale-up?  | Yes  |
| Name of the transmission plan   | 0    |
| Has the country conducted a variable renewable energy integration study?  | Yes  |
| Name of the integration study   | 0    |
| Year of the integration study   | 2012 |
| Does the country have sufficient resource abundance to warrant a solar resource atlas?                                    | Yes  |
| Does the government publish or endorse a solar resource atlas or other data on the abundance and quality of the resource? | No   |
| Solar atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;                   | No   |
| Solar atlas has a spatial resolution of 5km or less;  | No   |
| Solar atlas is based on modeling inputs covering at least a 10  | No   |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| year period;   |     |
| Solar atlas is accompanied by an explanation of the methodology and instrumentation  | No  |
| Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of solar resources?                  | No  |
| Has the solar resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? | No  |
| Are the solar resource planning or zoning guidance outputs publically available?   | No  |
| Does the country have sufficient resource abundance to warrant a wind resource atlas?  | Yes |
| Does the government publish or endorse a wind resource atlas or other data on the abundance and quality of the resource?                             | Yes |
| Wind atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;   | Yes |
| Wind atlas has a spatial resolution of 5km or less;  | Yes |
| Wind atlas is based on modeling inputs covering at least a 10 year period;   | Yes |
| Wind atlas is accompanied by an explanation of the methodology and instrumentation   | No  |
| Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of wind resources?                   | Yes |
| Has the wind resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?  | No  |
| Are the wind resource planning or zoning guidance outputs publically available?  | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Does the country have sufficient resource abundance to warrant a hydro resource atlas?   | Yes |
| Does the country publish or endorse a national hydro resource map or atlas?  | No  |
| Hydro atlas is validated by ground-based water run-off data and/or site surveys from potential sites;  | No  |
| Hydro atlas is accompanied by an explanation of the methodology and instrumentation  | No  |
| Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of hydro resources?                    | No  |
| Has the hydro resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?   | No  |
| Are the hydro resource planning or zoning guidance outputs publically available?   | No  |
| Does the country have sufficient resource abundance to warrant a biomass resource atlas?   | Yes |
| Does the country publish or endorse a national biomass resource map or atlas?  | No  |
| Biomass atlas is validated by ground-based survey or officially reported data;   | No  |
| Biomass atlas is accompanied by an explanation of the methodology and instrumentation.   | No  |
| Has the biomass resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? | No  |
| Are the biomass resource planning or zoning guidance outputs publically available?   | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Does the country have sufficient resource abundance to warrant a geothermal resource atlas?   | Yes |
| Does the country publish or endorse a national geothermal resource map or atlas?  | No  |
| The government has collected and recorded well data at potential geothermal sites?  | No  |
| Does the government publish a national geological map?  | No  |
| The government has supported surface exploration (geological; geochemical; temp; gradient) at potential sites?  | No  |
| The government has supported test drilling at at least one site (slim bore or full well)?   | No  |
| The government has supported the creation of a reservoir model at at least one site?  | No  |
| Has the country carried out strategic geothermal resource planning or produced zoning guidance to inform the commercial development of the resource?      | No  |
| Has the geothermal resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? | No  |
| Are the geothermal resource planning or zoning guidance outputs publically available?   | No  |

|   |              |           |
|---|--------------|-----------|
| <b>Incentives and regulatory support for renewable energy</b> | <b>Score</b> | <b>63</b> |
|---|--------------|-----------|

|   |     |
|---|-----|
| Is there at least one scheme to support renewable energy per unit of electricity generated? (e.g., feed-in tariff, competitive bidding/auction, mandates, generation premiums, production tax credits)? | Yes |
| Feed-in tariff  | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Feed-in tariff - Solar                      | No |
| Feed-in tariff - Wind                       | No |
| Feed-in tariff - Hydro                      | No |
| Feed-in tariff - Biomass                    | No |
| Feed-in tariff - Geothermal                 | No |
| Government body in charge                   |    |
| Projects guaranteed off-take                | No |
| Solar Feed-in-tariff Price (\$ cents/kWh)   |    |
| Solar Feed-in-tariff Max. capacity (single) |    |
| Solar Feed-in-tariff Max. capacity (total)  |    |
| Solar Feed-in-tariff Closing date           |    |
| Wind Feed-in-tariff Price (\$ cents/kWh)    |    |
| Wind Feed-in-tariff Max. capacity (single)  |    |
| Wind Feed-in-tariff Max. capacity (total)   |    |
| Wind Feed-in-tariff Closing date            |    |
| Hydro Feed-in-tariff Price (\$ cents/kWh)   |    |
| Hydro Feed-in-tariff Max. capacity (single) |    |
| Hydro Feed-in-tariff Max. capacity (total)  |    |
| Hydro Feed-in-tariff Closing date           |    |
| Biomass Feed-in-tariff Price (\$ cents/kWh) |    |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Biomass Feed-in-tariff Max. capacity (single)     |    |
| Biomass Feed-in-tariff Max. capacity (total)      |    |
| Biomass Feed-in-tariff Closing date               |    |
| Geothermal Feed-in-tariff Price (\$ cents/kWh)    |    |
| Geothermal Feed-in-tariff Max. capacity (single)  |    |
| Geothermal Feed-in-tariff Max. capacity (total)   |    |
| Geothermal Feed-in-tariff Closing date            |    |
| Competitive bidding                               | No |
| Auction 1 - Year                                  |    |
| Auction 1 - Technology                            |    |
| Auction 1 - Project-specific tender and size (MW) |    |
| Auction 1 - Auction for total and size (MW)       |    |
| Auction 1 - Standard PPA and Term                 |    |
| Auction 1 - Price ceiling                         | No |
| Auction 1 - Winning bid (\$ cents/kWh)            |    |
| Auction 1 - Government body in charge             |    |
| Auction 2 - Year                                  |    |
| Auction 2 - Technology                            |    |
| Auction 2 - Project-specific tender and size (MW) |    |
| Auction 2 - Auction for total and size (MW)       |    |



## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Auction 2 - Standard PPA and Term  |     |
| Auction 2 - Price ceiling  | No  |
| Auction 2 - Winning bid (\$ cents/kWh)   |     |
| Auction 2 - Government body in charge  |     |
| Winning bid guaranteed off-take  | No  |
| Mandates   | Yes |
| Generation premium   | No  |
| Production tax credit  | No  |
| Does the government offer other direct fiscal incentives for renewable energy (e.g. capital subsidies, grants or rebates, investment tax credits, tax reductions?) | Yes |
| Investment tax credit  | Yes |
| Accelerated depreciation   | No  |
| Reduction in import taxes  | No  |
| Reduction in sales tax or other taxes  | No  |
| Does the country provide prioritized access to the grid for RE?  | No  |
| Do RE projects receive priority in dispatch?   | Yes |
| Are there provisions to compensate seller if offtake infrastructure is not built in time?  | No  |
| Are there mechanisms to compensate RE projects for lost generation due to certain curtailments after project commissioning?  | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

| Attributes of financial and regulatory incentives   | Score | 56  |
|---|-------|-----|
| Is the market entry mechanism for private RE projects defined? (e.g. 1st come 1st served; tenders)  |       | Yes |
| Details   |       | 0   |
| Are projects subject to development timelines or milestones?  |       | No  |
| Are tariffs indexed (in part or in whole) to an international currency or to inflation?   |       | Yes |
| If there is a guaranteed tariff, is there a mechanism to adjust the level of the tariff for new entrants (e.g., declination)?   |       | N/A |
| If there is a guaranteed tariff, is there a mechanism to differentiate tariffs based on the size of the generation plant?   |       | N/A |
| If there is competitive bidding/auctions, are there provisions to ensure full and timely project completion (e.g., bid-bonds, project milestones, eligibility requirements) |       | N/A |
| If there is a renewable energy mandate, can it be met with tradable certificates (e.g., RECs, ROCs, TECs)?  |       | Yes |
| Is the price subsidy/benefit implied by a renewable energy incentive program passed through in full or in part to the final electricity consumer?                           |       | No  |

| Network connection and pricing   | Score | 83      |
|--|-------|---------|
| Are there rules defining the allocation of connection costs?   |       | Yes     |
| What is the type of the connection cost allocation policy (i.e. shallow/deep)?   |       | Shallow |
| Are there rules that allow electricity customers to purchase power directly from a third party (i.e. an entity other than the designated utility in a service area)? |       | Yes     |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Do the rules define the size and allocation of costs for transmission and distribution wheeling charges? (e.g., wheeling charges, locational pricing?) | N/A |
| Do the rules consider customer type/size in determining eligibility for purchasing electricity from a third party?                                     | Yes |
| connection cost document   | 0   |
| Does the country have a grid code that includes measures or standards addressing variable renewable energy?  | Yes |
| Is there more than one balancing area in the country?  | No  |
| Are there rules for exchanging power between balancing areas that penalize variable renewable energy (e.g. through imbalance penalties)?               | N/A |
| Are there provisions in the power exchange rules that allow for plant forecasting?   | N/A |

| <b>Counterparty risk</b>   | <b>Score</b> | <b>100</b> |
|--|--------------|------------|
| Does the government offer or allow backing of utility payments (e.g. through a letter of credit, escrow account, payment guarantee, or other)? | No           |            |
| Information disclosure   | 33           |            |
| Are the financial statements of the largest utility publicly available?  | 0            |            |
| Are the financial statements of the largest generation company publicly available?   | Yes          |            |
| Are the financial statements of the largest transmission company publicly available?   | Yes          |            |
| Are the financial statements of the largest distribution company publicly available?   | Yes          |            |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Are the financial statements of the largest retail electricity sales company publicly available?   | Yes |
| Are the following metrics published in a primary official document (by the utility, regulator or ministry and/or government)?                                    | 0   |
| Is the transmission loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                | Yes |
| Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                | Yes |
| Is the bill collection rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                  | Yes |
| Is the amount of electricity available for sale to end-users published in a primary official document (by the utility, regulator or ministry and/or government)? | Yes |
| Information Auditing   | 33  |
| Financial statements independently audited?  | 0   |
| Are the financial statements of the largest generation company audited?  | Yes |
| Are the financial statements of the largest transmission company audited?  | Yes |
| Are the financial statements of the largest distribution company audited?  | Yes |
| Are the financial statements of the largest retail electricity sales company audited?  | Yes |
| Monitoring Reliability   | 0   |
| Is the utility operating an incidence/outage recording system (or SCADA/EMS with such functionality)?  | Yes |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |                         |
|---|-------------------------|
| Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability? | Yes                     |
| Are the data reported to the regulatory body?   | Yes                     |
| Are the data available to the public?   | Yes                     |
| Name of the selected utility  | Eletrabel (only retail) |
| data - 17.1. Current ratio (working capital ratio)  | 0                       |
| data - 17.2 Debt Service Coverage Ratio   | N/A                     |
| data - 17.3 Days payable outstanding  | 173                     |
| data - 17.4 EBITDA margin   | 0                       |
| Current ratio (working capital ratio) of selected utility                                       | 0                       |
| Debt Service Coverage Ratio of selected utility   | 0                       |
| Days payable outstanding of selected utility  | 1                       |
| EBITDA margin of selected utility   | 5                       |

| <b>Carbon pricing and monitoring</b>   | <b>Score</b> | <b>70</b> |
|--|--------------|-----------|
| Is there a carbon pricing mechanism in place?  | Yes          |           |
| For any carbon pricing mechanism (e.g. carbon tax, emission trading system), what is the portion of national GHG emissions covered)? | 40%          |           |
| Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?                                      | Yes          |           |