**CO₂ EMISSIONS: A -26% DROP IN 2018 VS 2017 OF DIRECT EMISSIONS DUE TO DECREASING COAL FIRED ASSETS**

In Mt

- Direct emissions of greenhouse gases in 2018: 65.8
- Of which direct emissions of greenhouse gases under the EU-ETS system (estimate): 29.3
- Allocation of bonus quotas: 0.8

**2018 GHG (scope 1) FROM ENERGY GENERATION SPLIT BY FUEL**

- 10 Mt (16%)
- 24.2 Mt (38%)
- 29.3 Mt (46%)

**63.6 Mt CO₂**

**In Mt**

- Coal
- Gas
- Other
SUSTAINABILITY
### 2018 RESULTS CONFIRMING LONG TERM CSR AMBITION

**ENGIE committed in 2016 to 6 ambitious CSR objectives to be achieved by 2020**
- To support its strategic ambition and demonstrate its impacts on society

**CSR governance designed to ensure commitment across the Group**
- CSR performance reviews led by CSR Department with Business Units

<table>
<thead>
<tr>
<th>Objective</th>
<th>Key Performance Indicator</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>2020 target</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Supporting our customers in the energy transition</td>
<td>Satisfaction rate among our B2C customers</td>
<td>NA</td>
<td>81%</td>
<td>83%</td>
<td>81%</td>
<td>85%</td>
</tr>
<tr>
<td>2) Renewable</td>
<td>Share of renewable energy in the electricity generation capacity</td>
<td>18.3%</td>
<td>19.5%</td>
<td>23.1%</td>
<td>23.7%</td>
<td>25%</td>
</tr>
<tr>
<td>3) Greenhouse gas emissions</td>
<td>% reduction in ratio of CO₂ emissions to energy production compared with 2012</td>
<td>+0.6%</td>
<td>-11.3%</td>
<td>-18.1%</td>
<td>-28.7%</td>
<td>-20%</td>
</tr>
<tr>
<td>4) Stakeholder dialogue</td>
<td>% of industrial activities covered by a suitable dialogue and consultation mechanism</td>
<td>NA</td>
<td>20%</td>
<td>48%</td>
<td>53%</td>
<td>100%</td>
</tr>
<tr>
<td>5) Gender diversity</td>
<td>% of women in the Group’s workforce</td>
<td>21.6%</td>
<td>21.9%</td>
<td>22.2%</td>
<td>21.1%</td>
<td>25%</td>
</tr>
<tr>
<td>6) Health and safety</td>
<td>Internal frequency rate for occupational accidents</td>
<td>3.6</td>
<td>3.6</td>
<td>3.3</td>
<td>3.4</td>
<td>&lt; 3</td>
</tr>
</tbody>
</table>
CONTRIBUTION OF ENGIE CSR OBJECTIVES TO UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS

ENGIE CSR objectives support the Group’s ambition of energy transition leaderships and contribute to the global sustainable development priorities defined by the United Nations.

1. **No Poverty**
   - 25% renewable energy in the generating capacity mix, new renewable projects, sustainable energy access for all (~3 million beneficiaries of “Rassembleurs d’Energies” projects as of End 2018), 20 million beneficiaries of sustainable-energy access programs at the “Base of the Pyramid”

2. **Affordable and Clean Energy**
   - €1.5bn Expenditure in emerging & digital technologies between 2016 and 2018, €165m ENGIE New Ventures fund investing in startups

3. **Industry Innovation and Infrastructure**
   - Objective of Health & Safety (internal accident frequency rate below 3, “our live-saving rules” to reduce fatal accidents

4. **Decent Health and Well-being**
   - Objective of gender diversity (25% of woman in the workforce)

5. **Gender Equality**
   - Support our customers in the energy transition (B2C satisfaction rate above 85%), develop Stakeholder Engagement (all industrial activities covered by a suitable dialogue), objective of 100% of target sites with an integrated environmental management plan drawn up in collaboration with their stakeholders

6. **Clean Water and Sanitation**
   - Cut CO₂ emissions ratio for energy production by -20%, exit from coal power generation

7. **Affordable and Clean Energy**
   - Member of the CEO water mandate from 2008

8. **Sustainable Cities and Communities**
   - ENGIE’s commitment to the French National Strategy on Biodiversity (SNB) from 2012, confirmed again in 2016, member of Act4nature initiative

(1) By 2020
(2) By 2020, vs 2012 level
SUSTAINABILITY

ENGIE WELL-POSITIONED IN CSR RATINGS AND INDEXES

ENGIE listed in the main indexes

- DJSI World, DJSI Europe, Industry Leader
- Euronext Vigeo Eiris World 120, Europe 120, Eurozone 120 and France 20
- CAC40 Governance

CERTIFICATIONS

- 80% of revenues covered by ISO 14001, EMAS\(^2\), other external EMS\(^3\) certifications and internal EMS (2018)

Communication on progress: Advanced level
**SUSTAINABILITY**

**ENGIE DECARBONIZATION ROADMAP: DELIVER GREENER COMPETITIVE SOLUTIONS FOR INDUSTRIAL CLIENTS**

1. **Measure**
   - manage customer’s carbon footprint
     - energy data collection of industrial sites and CO₂ neutral roadmap
     - help develop inclusive, resilient, and transparent supply chain

2. **Gain**
   - develop appropriate energy solutions for every site
     - focus on relevant sites & energy solutions
     - quick wins for customer’s sustainability roadmap
     - increase business profitability with relevant solutions

3. **Sustain**
   - develop new territorial approaches to help customers being more sustainable
     - innovate through circular economy, identify industrial synergies & effective business alliances
     - implement comprehensive stakeholder engagement
     - provide support in climate risk assessment, benchmark human & labor rights practices
SUSTAINABILITY

STAKEHOLDER ENGAGEMENT: A KEY LEVER TO IMPROVE THE BUSINESS

Objective to have 100% of industrial activities covered by a suitable dialogue & consultation mechanism by 2020

2018 result: 53%

Development of dedicated toolkit to support BUs

- Local context studies to identify main issues
- Stakeholder mapping for each issue, Stakeholder dialogue action plan

Training programs for

- Business Developers / Project Managers, along with ENGIE University
- Operational teams to prepare them for meetings with communities

CSR corporate team bringing operational support to projects worldwide

Support to Operations

Kathu 100MW greenfield Concentrated Solar Power project in South Africa

Sustainable Energy

- Saving 6 Mt of CO₂ over 20 years operation
- Reliably able to supply over 179,000 South African homes with stable electricity during peak demand periods

Local acceptance of the project

- Promote local development through community investment projects; and economy through local procurement and employment
- Stakeholder engagement and conflict management support given during construction period
- Project successfully delivered and started operation in early February 2019
ENGIE aimed at being at the forefront of the energy transition with the acquisition in 2018 a majority stake of Electro Power Systems (EPS), a pioneer in hybrid solution storages.

EPS is a company specialized in energy storage solutions and microgrids that enable intermittent renewable sources to be transformed into a stable power source. With the transaction, both companies aim at further accelerating their vision to be at the forefront of the energy transition, with special focus on decentralized energy solutions.

ENGIE considerably expanded its wind development portfolio in the U.S by acquiring Infinity Renewables, a leading developer of utility-scale wind projects in the United States.

The acquisition includes more than 8,000 MW of projects in various stages of development. In end of 2018 ENGIE announced the start of construction of the 276 MW Solomon Forks Wind Project and the 196 MW East Fork Wind Project in northwest Kansas.

ENGIE confirmed in 2018 its number one position in the solar and wind energy sectors in France with the acquisition of the Langa group

Founded in 2008, the Langa group, based in Brittany, is one of the most active independent producers of renewable energy, simultaneously present in solar, wind, biogas and biomass. The group is developing 1.3 GW of projects due to be completed by 2022.

ENGIE announced on 30 January 2019 the commercial operation of the 100 MW Kathu Solar Park in South Africa.

This state of the art plant is a greenfield Concentrated Solar Power (CSP) project with parabolic trough technology and equipped with a molten salt storage system that allows for 4.5 hours of thermal energy storage to provide reliable electricity in the absence of solar radiation and during peak demand. Kathu is the first CSP development for ENGIE.
PROGRESS ON GREEN BOND ALLOCATION

<table>
<thead>
<tr>
<th>Bonds</th>
<th>Amount issuance [bnEUR]</th>
<th>Allocation period</th>
<th>Reporting</th>
<th>Impact (@100%) [MTCO2]/year*</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2019</td>
<td>1</td>
<td>NEW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 2018</td>
<td>1</td>
<td>2018 - 2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 2017</td>
<td>1.25</td>
<td>2017 - 2018</td>
<td>2018 Registration document (ongoing)</td>
<td>3.3</td>
</tr>
<tr>
<td>March 2017</td>
<td>1.5</td>
<td>2016 - 2017</td>
<td>2017 Registration document</td>
<td>8.7</td>
</tr>
<tr>
<td>May 2014</td>
<td>2.5</td>
<td>2014 - 2016</td>
<td>2015 and 2016 Registration document</td>
<td></td>
</tr>
</tbody>
</table>

€1.25bn Green Bond issued in September 2017 fully allocated **

** % FUNDS ALLOCATED BY GEOGRAPHICAL AREA **

- Africa: 10.5%
- North America: 15.3%
- Latin America: 18.5%
- Asia Pacific: 2.4%
- Europe: 53.3%

*projects’ contributions to avoided or reduced emissions*

** % FUNDS ALLOCATED BY TECHNOLOGY **

- Wind: 38.4%
- Energy storage: 4.6%
- Solar: 30.9%
- District cooling: 0.3%
- Transmission: 3.8%
- Energy efficiency: 10.1%
- Biomass: 4.1%
- Geothermal: 1%
- Green Mobility: 6.8%

* *provisional allocation before validation by auditors*