ECOPETROL S.A

Santiago Martínez
Environmental Performance Manager
WHO WE ARE

- Main Oil & Gas Company in Colombia
- NYSE listed company
- Proven reserves of 1,727 million barrels of oil equivalent
- Integrated energy company (exploration, production, refining, transport).
- 38 production fields
- Two refineries
- Three ports
- 8000 km pipeline network
- 43MW installed capacity of renewable energies, 179 MW goal by 2021.
### Nacional and International frameworks

<table>
<thead>
<tr>
<th>COP21 - NDC Emission reduction goal of 20% by 2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal for the Mining &amp; Energy Sector - 11.2 Mt CO2e by 2030 (16.8% of total)</td>
</tr>
<tr>
<td>Legal Framework (Carbon tax, emission caps – Law 1931/18)</td>
</tr>
<tr>
<td>SDG – Goal 13: Climate Action</td>
</tr>
</tbody>
</table>

### Goals & Actions

<table>
<thead>
<tr>
<th>Inventory: 11 Mt CO2e in 2018 Emission reductions forecasted for 2019 163,528t CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecopetrol emissions reduction goal between 15% to 20% by 2030 – will take part of the Energy Transition program</td>
</tr>
<tr>
<td>4 Specific Programs: 1) flare gas burnings reduction 2) venting and fugitive emissions reductions, 3) energy efficiency and 4) renewable energies</td>
</tr>
<tr>
<td>CCAC Membership</td>
</tr>
</tbody>
</table>
Progress in 2018

- Four projects under third party verification for carbon credits. (Self-generation Casabe field, 27,000 ton CO2eq.)
- Action plan for fugitive emissions reductions in place and corresponding KPI to measure compliance.
- CCAC Membership.
- Identification of opportunity through Black Carbon Initiative for flare gas measurements to set up business case.
Thank you

Contacts:

Santiago Martinez
Environmental Performance Manager
Santiago.martinez@Ecopetrol.com.co

Martha Herrera
Innovation and Technology Center Ecopetrol S.A
Martha.herrrrera@Ecopetrol.com.co