EVs – a gift to the energy ecosystem
Global electricity consumption will double by 2050

Driven by mobility, urban & tech developments

Between 500 million – 1 billion EV’s expected on the road in 2050

Total electricity demand will significantly impact the grid infrastructure

Source: McKinsey, OECD, IEA, GreenFlux
ELECTRIC VEHICLES – THE NEW ELECTRICITY “CONSUMERS”

**ANNUAL EV CONSUMPTION BY VEHICLE TYPE**

<table>
<thead>
<tr>
<th>VEHICLE TYPE*</th>
<th>ASSUMED % ALL-ELECTRIC MILES**</th>
<th>AVERAGE ANNUAL CONSUMPTION (KWH)</th>
<th>MAXIMUM POWER DRAW WHEN CHARGING VIA LEVEL 2 EVSE (KWH)***</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHEV10</td>
<td>10-15%</td>
<td>500</td>
<td>3.3 – 3.6</td>
</tr>
<tr>
<td>PHEV20</td>
<td>33%</td>
<td>1,400</td>
<td>3 – 3.3</td>
</tr>
<tr>
<td>PHEV40</td>
<td>75%</td>
<td>3,500</td>
<td>3.3 – 6.6</td>
</tr>
<tr>
<td>BEV100</td>
<td>100%</td>
<td>3,500</td>
<td>3.3 – 10</td>
</tr>
<tr>
<td>BEV300</td>
<td>100%</td>
<td>4,350</td>
<td>10-20</td>
</tr>
</tbody>
</table>

Sources: ICF, The EV Project, Ford Motor Company, Smart Electric Power Alliance, 2017

* PHEV = plug-in hybrid electric vehicle, BEV = battery electric vehicle; e.g. a PHEV10 has a battery capacity for approximately 10 all-electric miles
** It is assumed that all vehicle types would be driven 12,000-13,000 miles annually, except a BEV100 at 10,000 miles due to the range restrictions of the battery
*** Level 2 EVSE = electric vehicle supply equipment that operates using a 240-volt outlet
ARE YOU READY TO BENEFIT FROM THE NEW DEMAND?

IS YOUR INFRASTRUCTURE PREPARED FOR THE SURGE IN DEMAND?
Managed/smart charging – the key element of the puzzle

Optimal use of capacity without impacting the experience
Managed/smart charging – it is a good business

North American EV Grid Services Market ($B)

Source: SEPA, Wood Mackenzie Power Renewables, 2018
Ready for the future with the SMARTEST EV CHARGING SOLUTIONS

Powering global Charge Point Operators

- Remote management via open standards
- Billing and transaction management
- Global Roaming via open standards
- Smart Energy Management (Smart Charging)
The GreenFlux SMART CHARGING CONTROLLER enables smart charging in every charge station.

Powering global Charge Point Manufacturers

- Compatible with all EV's
- Connect to every platform on the market
- Modular design
- Smart Charging functionalities
PROUD TO BE GREENFLUX

Leading the industry with our intelligent smart charging solutions

Founded in NL (2011), Amsterdam based

International customers in 15+ countries

18,000 connected charge stations

Leader in smart charging infrastructure (20% of NL market)

Access to 60,000 charge stations in Europe

Team of 80 bright and dedicated professionals

Multiple Shareholders
THANK YOU

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