

CHARGING INFRASTRUCTURE

ALONG THE GREEN HIGHWAY





TABLE OF CONTENTS

- DEFINITION OF CHARGING STATION
- GREEN HIGHWAY
- THE PROJEKT (Charging infrastucture along the Green Highway)
- HOW WE PLANED & BUILD
- INVESTMENTS
- OUTCOME & STATISTICS
- OPERATOR & BACKOFFICESYSTEM
- BENEFITS WITH EV
- PICTURE OF A STATION IN SUNDSVALL



DEFINITION OF CHARGING STATION

Definition from Wikipedia (2016-05-06)

Charging station

From Wikipedia, the free encyclopedia

This article is about electrical recharging. For pneumatic recharging, see compressed-air vehicle.

An electric vehicle charging station, also called EV charging station, electric recharging point, charging point, charge point and EVSE (Electric Vehicle Supply Equipment), is an element in an infrastructure that supplies electric energy for the recharging of electric vehicles, such as plug-in electric vehicles, including electric cars, neighborhood electric vehicles and plug-in hybrids.

As plug-in hybrid electric vehicles and battery electric vehicle ownership is expanding, there is a growing need for widely distributed publicly accessible charging stations, some of which support faster charging at higher voltages and currents than are available from residential EVSEs. Many charging stations are on-street facilities provided by electric utility companies or located at retail shopping centers and operated by many private companies. These charging stations provide one or a range of heavy duty or special connectors that conform to the variety of electric charging connector standards.





GREEN HIGHWAY - SÖT-COOPERATION









THE PROJEKT (Charging infrastucture along the Green Highway)















Diapositive 5

pilot study Daniel Petrovic; 1

consortium Daniel Petrovic; 2

public procurement = kommunal upphandling
Daniel Petrovic; 3



THE PROJEKT (Charging infrastucture along the Green Highway)

FAST CHARGERS

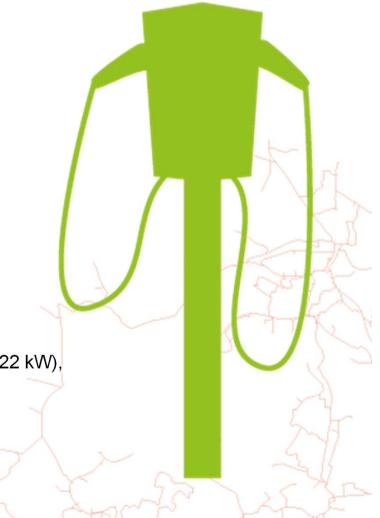
Installation of 11 fast charging stations (<50 kW), 22 charging points,





SMART CHARGERS

Installation of 82 smart charging stations (<22 kW), 164 charging points.



HOW WE <u>PLANED</u> & BUILD

CRITERIA

Connecting businesses



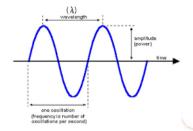
• Spreading



Public good



• The highest frequency of use



Exposure





HOW WE <u>PLANED</u> & BUILD

Map over the charging infrastucture in the Green Highway region

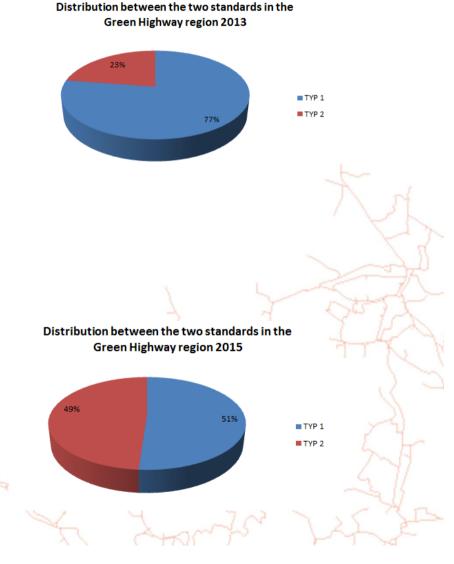




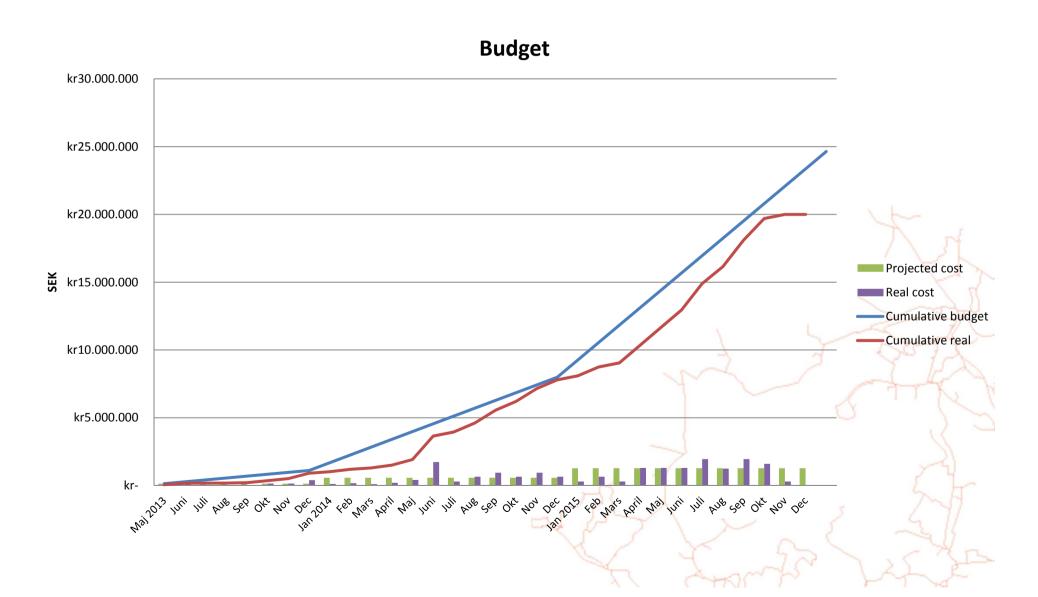
HOW WE PLANED & BULID

- The majority of electric car stock was using the TYP 1
- EU-standard TYP 2

• We choose therefore both standards

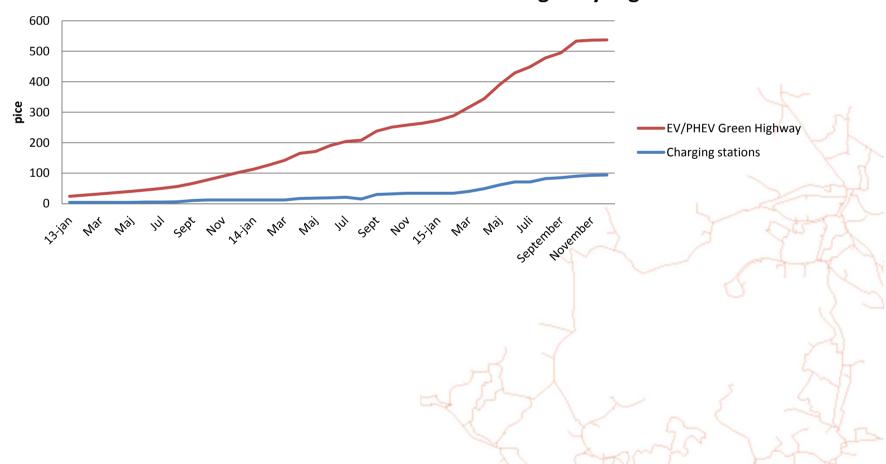


INVESTMENTS



OUTCOME & STATISTICS

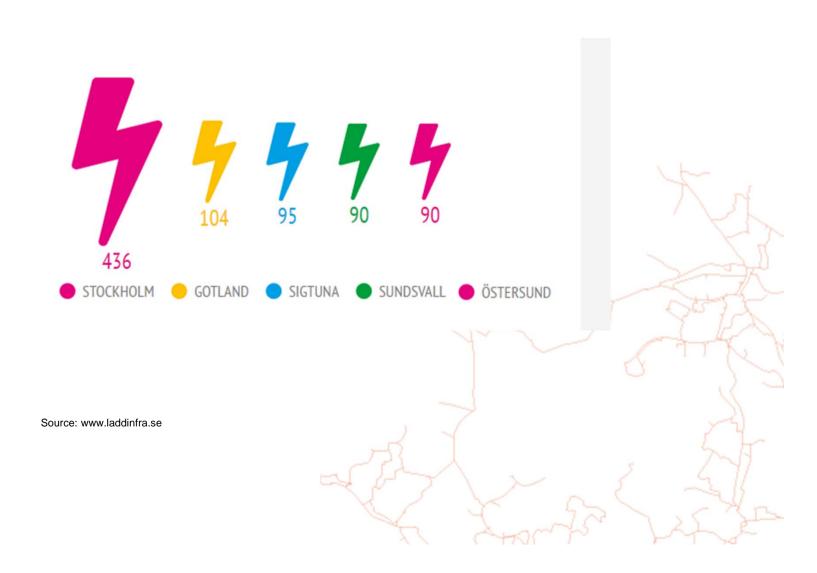
Development of the EV/PHEV fleet of vehicles and the charging infrastructure 2013-2015 in the Green Highway region





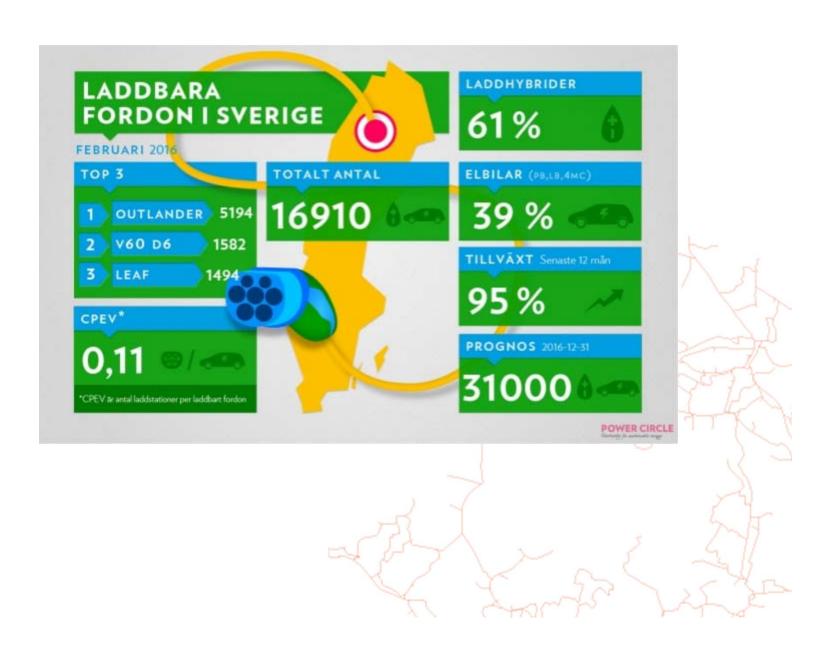
STATISTICS

TOP 5 - MOST CHARGINGPOINTS PER MUNPLICITY 2016-05-01





STATISTICS





OPERATOR & BACKOFFICESYSTEM



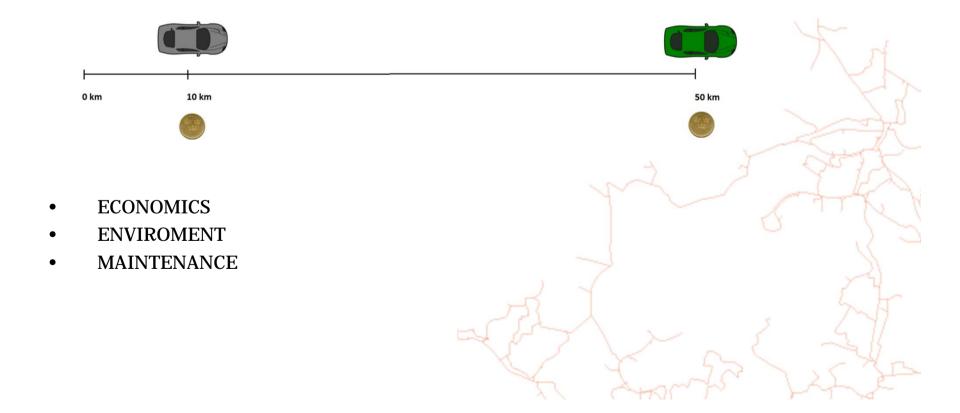








BENEFITS WITH EV





PICTURE OF A STATION IN SUNDSVALL





