

# **VOLVO CONSTRUCTION EQUIPMENT**

## **ELECTRIC SITE AE PROJECT**



# The Triple Zero

## Our aspiration, our challenge



**Zero unplanned stops**



**Zero emissions**



**Zero accidents**



# The technology shifts



**Autonomous**



**Electromobility**



**Site Solution**

# The Electric Site Project

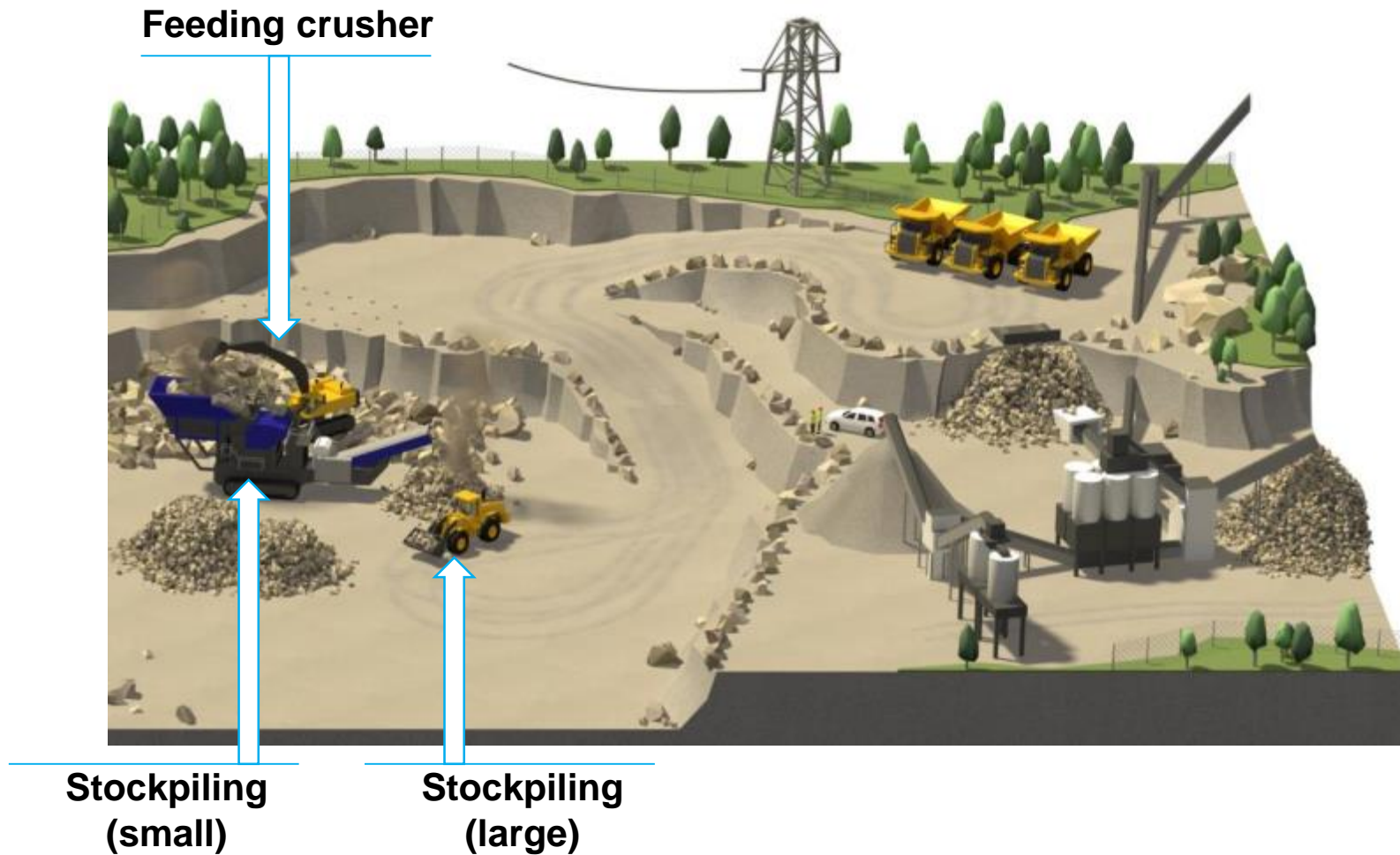
***“For 10 weeks, in autumn 2018, we will demonstrate the electric site concept with our key account customer Skanska Sweden at one of their sites in western Sweden. The system is safe, productive, environmentally friendly and commercially viable. It is the solution for the sustainable quarry and aggregate industry.”***



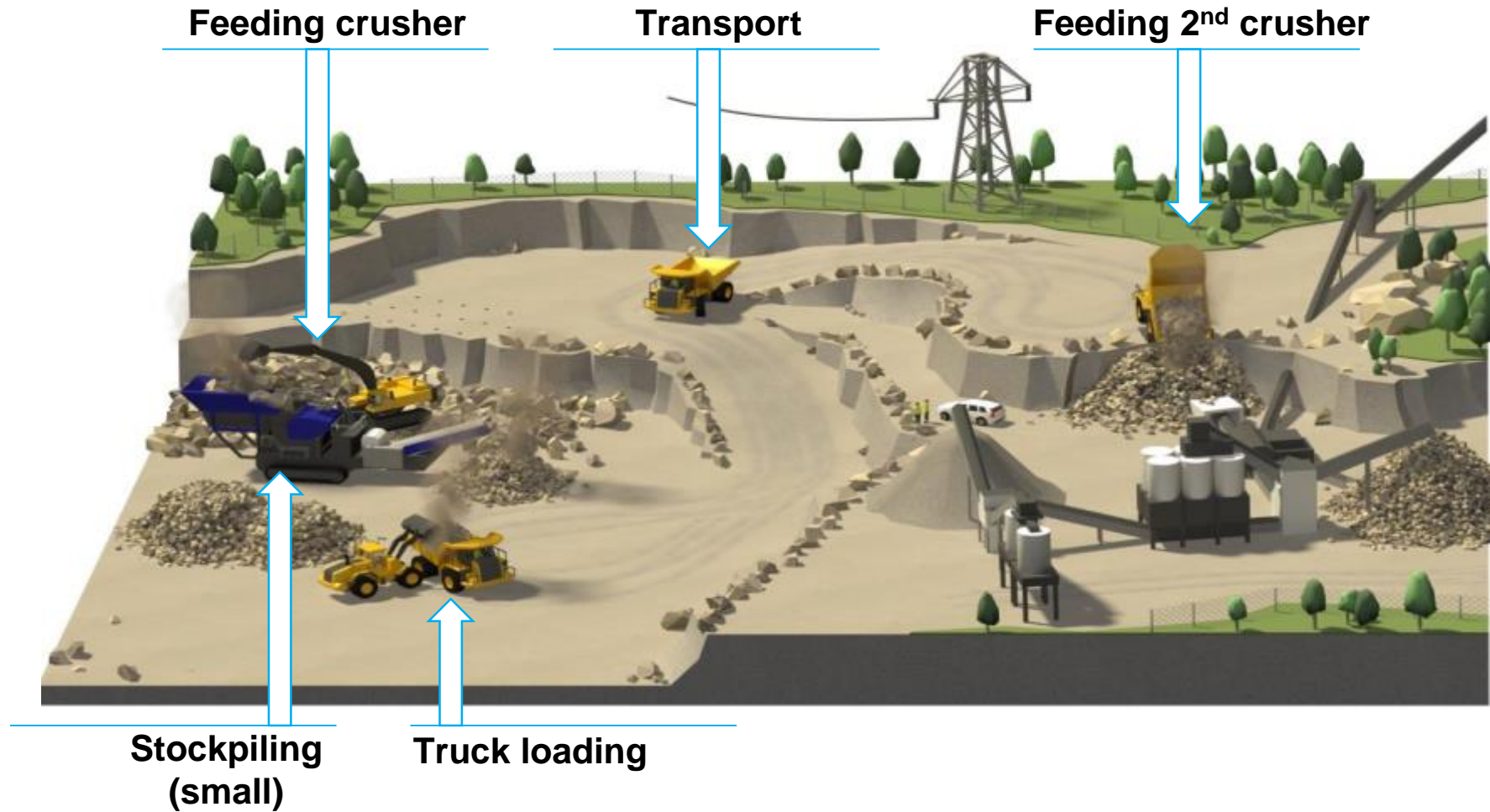
**SKANSKA**



# Afternoon operation - today



# Morning operation - today

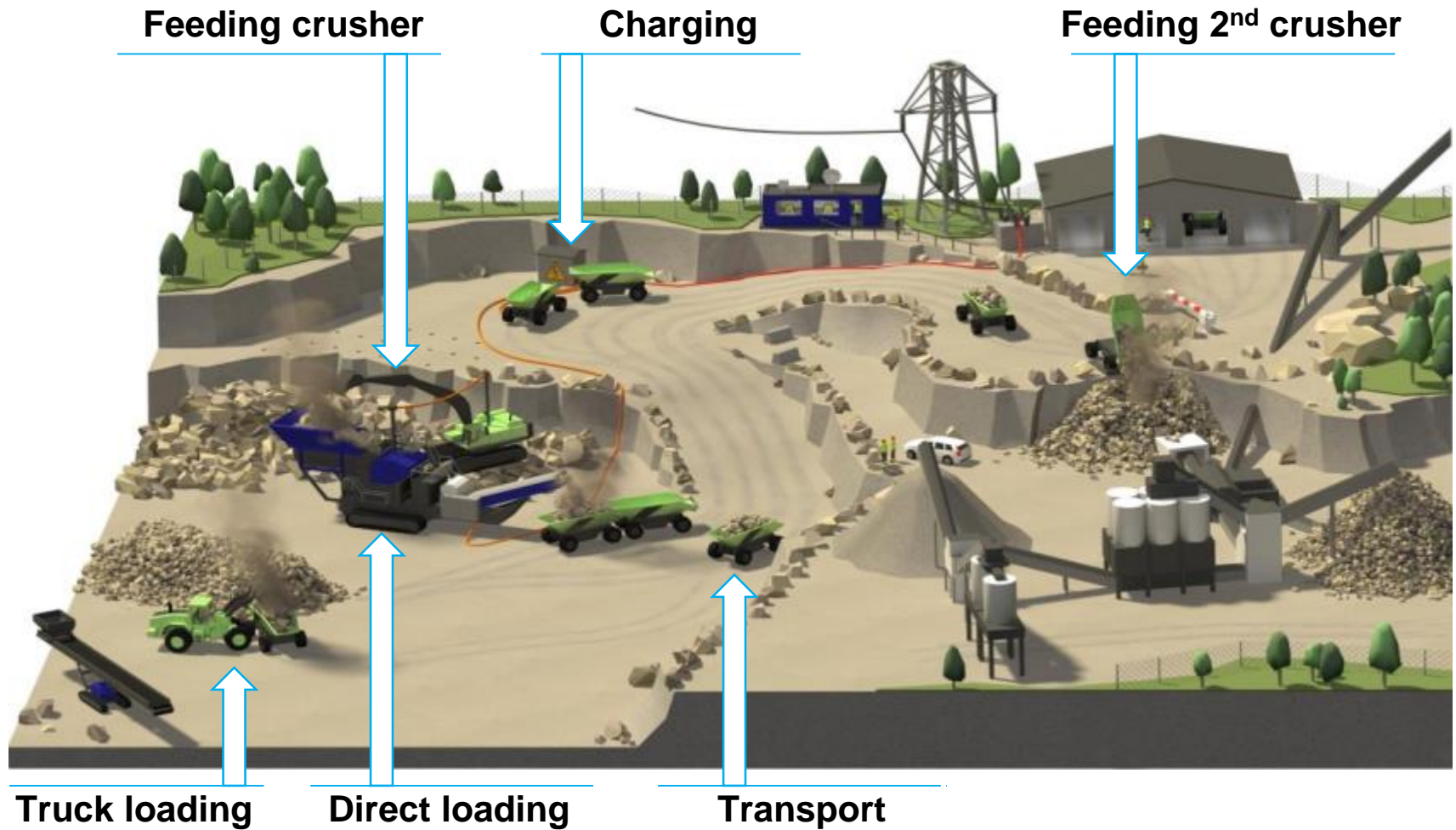




# New Electric site - afternoon operation












# New Electric site - morning operation










# Current Machines & Project Fleet Proposal

	Primary loading	Primary crushing	Stockpiling	Truck loading	Transport flat
Today's solution	 EC700	 Mobile Crusher	 WL 50t		 2/3 x RDT 50t ( payload )
Electric site proposal	 EX01	 Mobile Crusher on cable	 Mobile Conveyor belt	 LX1	 Multiple HX02 (6-8 machines)
	Site Management, Scheduling & Control Systems				

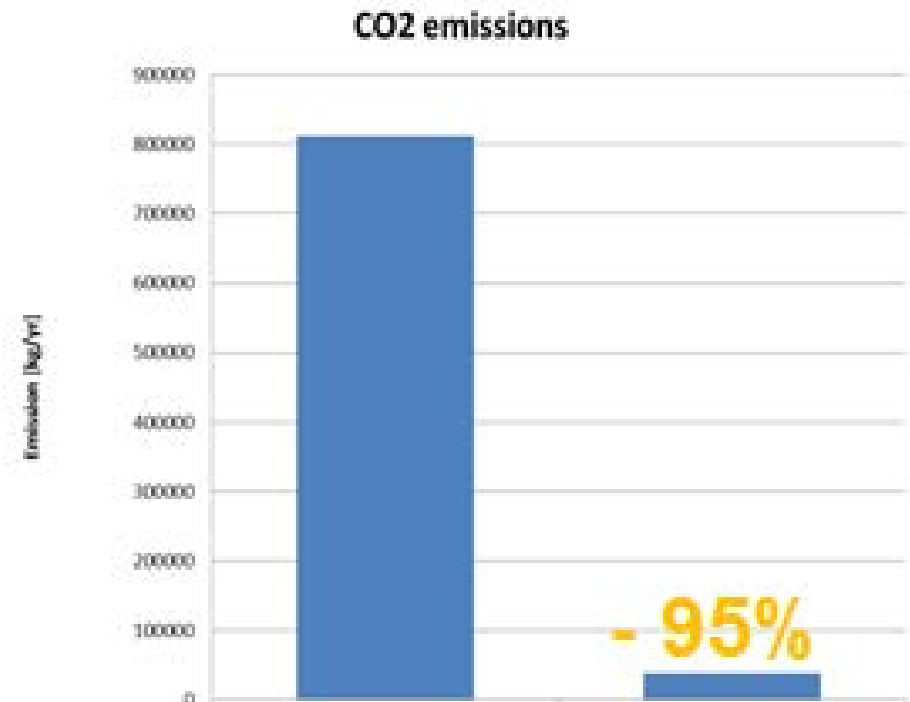
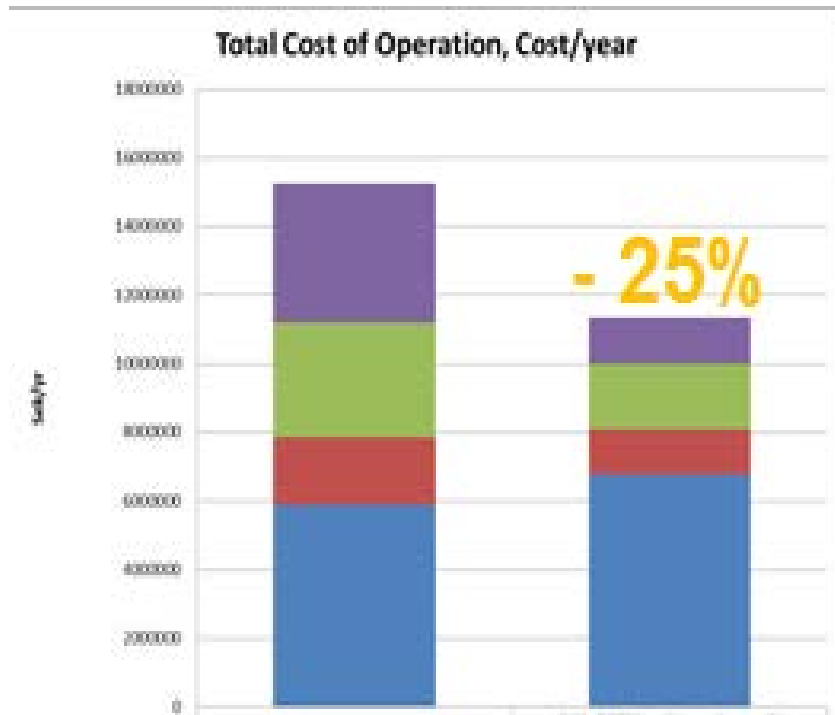
## Electric site introducing:

- EC750, crusher and conveyor belt on cable (dual mode machine)
- Existing Mobile crusher run on grid electricity (no longer genset)
- Hybrid Wheel Loader LX1
- Several electric & autonomous load receivers, HX02, including charger solution

# Typical Electric Power usage

		Peak Power	Average Power
	<i>Excavator</i>	<i>400 kW</i>	<i>200 kW</i>
	<i>Crusher</i>	<i>400 kW</i>	<i>200 kW</i>
	<i>Conveyor belt</i>	<i>100 kW</i>	<i>50 kW</i>
	<i>Wheel Loader</i>	-	-
	<i>HX02 Fleet and charger</i>	<i>300 kW</i>	<i>200 kW</i>
	<i>Complete System</i>	<i>1200 kW</i>	<i>650 kW</i>

# Total Cost Operation & CO2 Reduction





# 1<sup>st</sup> prototypes of LX1 & HX1 – 2016



[Movie](#)



# 2nd generation of HX: HX02

## ConExpo March 2017





**Thank You !**