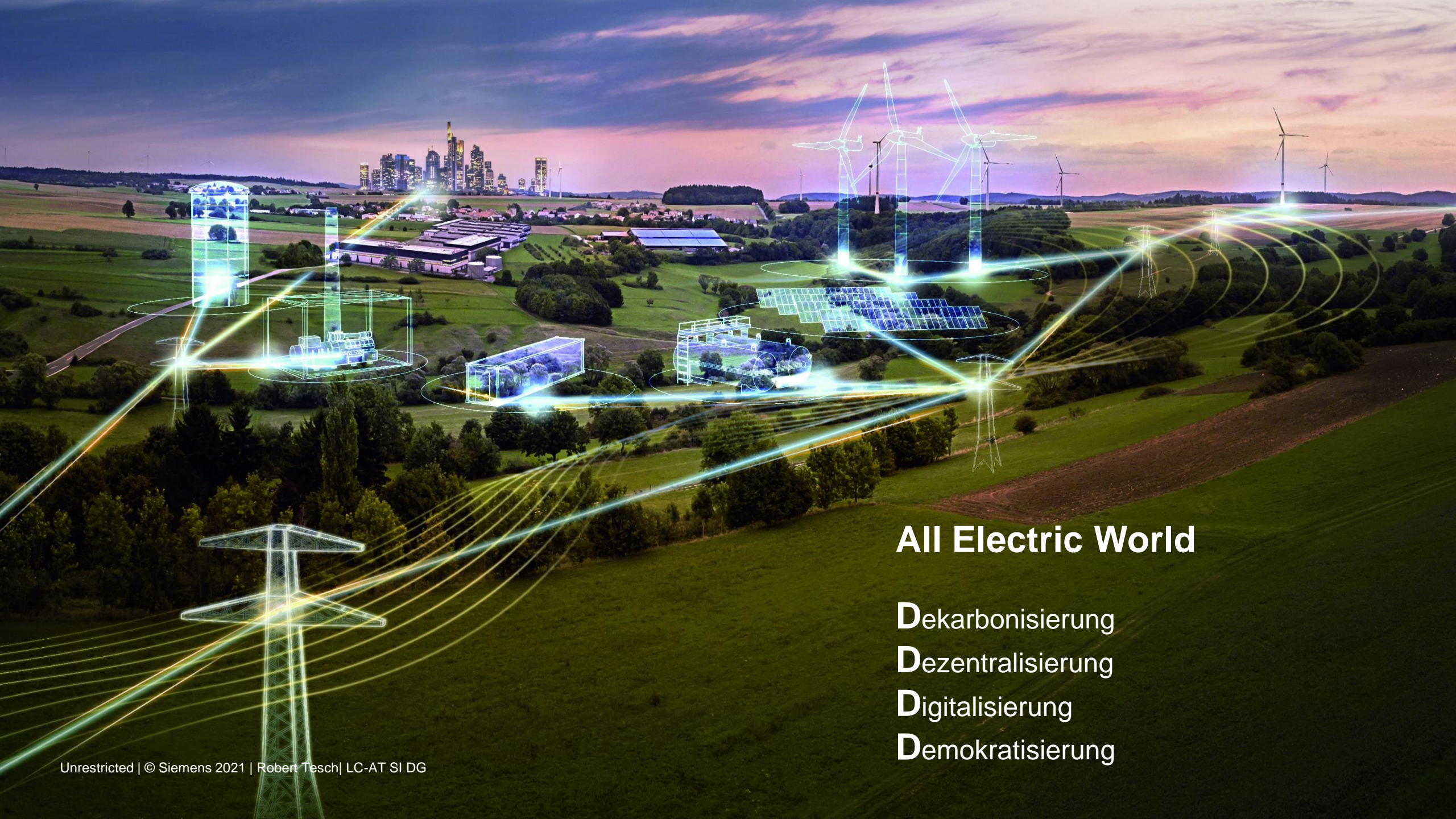




# Stromnetze und die Energiewende in der Industrie

Robert Tesch | Head Siemens Digital Grid CEE



## All Electric World

**D**ekarbonisierung  
**D**ezentralisierung  
**D**igitalisierung  
**D**emokratisierung

# Die Stromnetze sind im Stress



Heat Pumps



Renewable Integration



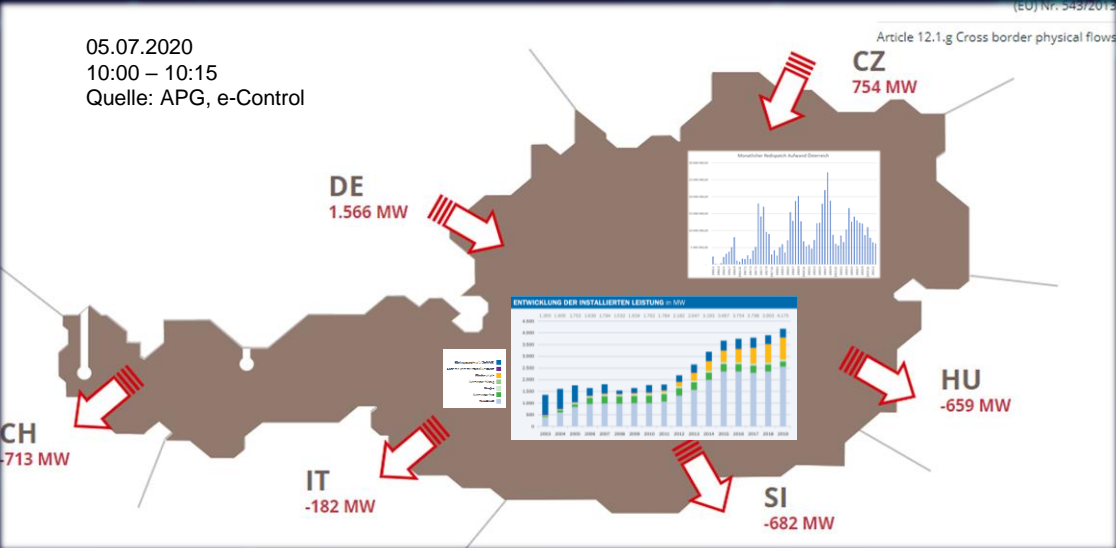
eMobility



Aircondition



Energy Communities



Storage



Regulatory Framework



Power Markets

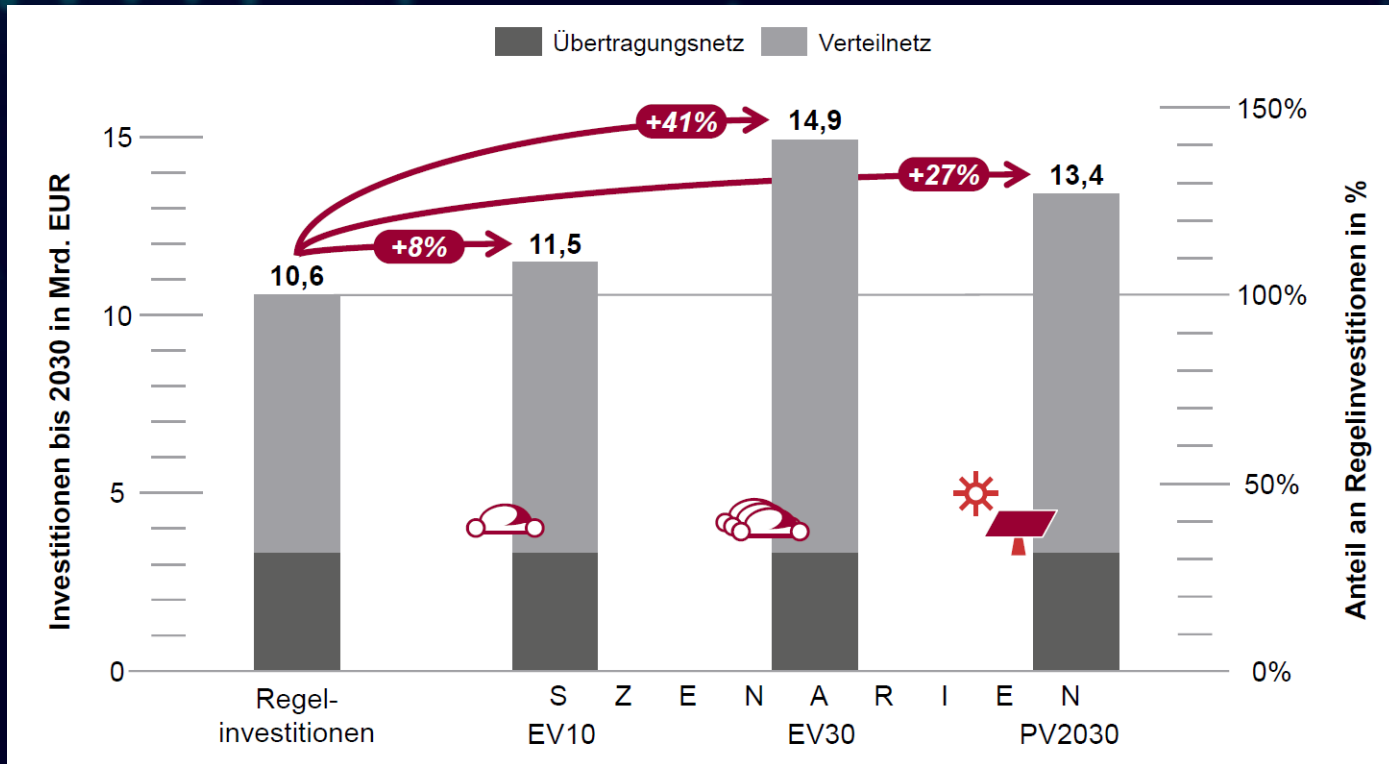


Intelligent Buildings



Society

# Der zusätzliche Ausbaubedarf des Stromnetzes aufgrund EV und PV der #mission2030 ist gemäß Österreichs Energie erheblich– ohne Berücksichtigung spezieller Industrieanforderungen



**#mission2030:**  
 100% Anteil Erneuerbarer  
 (national bilanziell) am  
 Gesamtstromverbrauch  
 +11 TWh PV  
 +11 TWh Wind  
 + 6 TWh Wasserkraft

Quelle: Österreichs Energie; TU Wien 2018 gemäß #mission2030

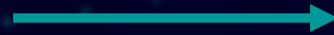
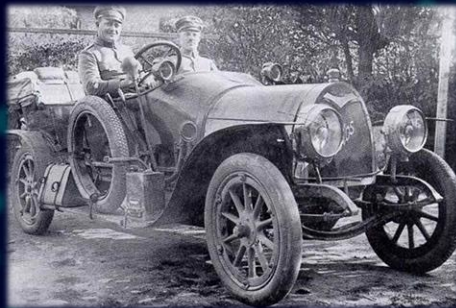
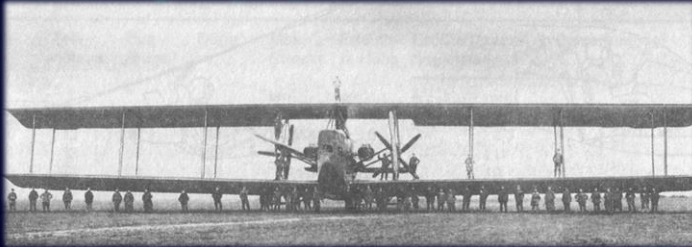
Szenario EV10 – 10% EV-Durchdringung im Jahr 2030

Szenario EV30 – 30% EV-Durchdringung im Jahr 2030

Szenario PV30 – Ausbau PV auf 12,6 GWp

Quelle: Österreichs Energie; Einfluss der Entwicklungen von Elektromobilität und Photovoltaik auf das österreichische Stromnetz, 2020

# Mit smarten Technologien und Domainwissen lassen sich Systemgrenzen verschieben und Systeme effizienter nutzen



# Zahlreiche Installationen weltweit beweisen, dass die notwendigen Lösungen verfügbar sind – sofern der Business Case passt



## Intelligent energy system, Retail, Finland

"In practice, every sunny day generates a clear financial for us."

OSR Paunala, property manager at Sello Shopping Center



## Genoa University Savona, Campus Italy

"The project involves not only th

## Gestamp: Managed-Services-Vertrag für Automobilzulieferer in Spanien

SIEMENS  
Ingenuity for Life.

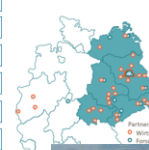
Gestamp Automación Herausforderung

## WindNODE – Windenergie in Nordostdeutschland

Das Schaufenster für intelligente Energie aus dem Nordosten Deutschlands

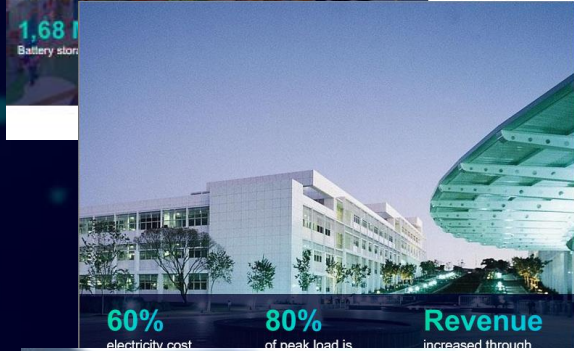
Project timeline:	Dez 2016 – Mär 2021
Budget:	ca. 35 Mio. €
Siemens share:	4,3 Mio. €
Partner:	> 50
Siemens Partner:	RC DE SI DG
T Partner:	TREE ENS SEP

REGION UND PARTNER



## Pebbles, Wildpoldsried Germany

"This innovative project aims to explore services that will have a d. cape



## Midrand Campus South Africa

"With the integration of Microgrid in Midrand...., we reduced our dependence from the public grid, cut carbon emissions and electricity cost by 60% and the sustainable building features attracted new tenants to the campus, leading to an increase revenue."

Sebastian Granow – Head of SRE South Africa, Midrand



## Water Plant Haßfurt Critical infrastructure, Germany

"The solution (Microgrid Control – a SICAM application) does not offer full security against blackout only, but also demonstrate the synergy of both sustainability and cost-efficiency. A system, which pays-off itself."

Norbert Zbach – CEO, Städtewerke Haßfurt



## Lemene Commercial Campus, Finland

"Our partnership with Siemens has strengthened even more along LEMENE-project. LEMENE ensures the security of electricity in Marjamäki Business Park, which offers an innovative, intelligent business ecosystem for companies"

Toni Laakso – CEO, Lemminkäinen Energy Int

## Ventotene, Island, Italy

solution has improved our way of n the island – and it is the lining of a new co-existence with ect for our environment."

Stefano – Resident from Ventotene



## Blue Lake Rancheria, Campus, USA

"When public safety power shutoffs left the surrounding community in darkness, Blue Lake Rancheria's systems were up and running."

"When you control your energy, you control your future."

Jana Genton – Sustainability and Government Affairs Director, Blue Lake Rancheria



## Pebbles, Wildpoldsried Germany

"This innovative project aims to explore services that will have a place in a fully decentralized, decarbonized energy landscape of largely self-sufficient prosumers."

Michael Luchte – CEO of ADW



## Creating efficient factories Ashok Leyland, India

0 numbers higher production but yearly



## Siemens Microgrid Campus Wien, Austria

"Just as the main building of the site, which opened in 2010, that stood for sustainability and energy efficiency, the current project points the way to the future of intelligent energy management solutions."

Franz Mündt – Head of Siemens Real Estate Central Europe

## Algonquin College, Campus, Canada

"We have put our brains together to come up with groundbreaking ideas to drive toward a net zero carbon footprint... We're able to give our students state-of-the-art lab experiences in new technologies that will drive the jobs of the future."

Cheryl Jensen – Past President, Algonquin College

# Kontakt

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