

# Technology Trends for Indonesian Energy Landscape

Dr. Rudolf Rauch, GIZ, Director Energy Programme Indonesia/ASEAN

Energy Talks by Siemens Gas & Power Operating Company

20<sup>th</sup> February 2020, Four Seasons, Jakarta

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH



kerja sama  
jerman  
DEUTSCHE ZUSAMMENARBEIT

# Recognize the value of the sun !

## Palm Oil

vs

## PV

14 Mio ha palm oil  
= 40 Mio t CPO/a  
= 60% Indo transp. fuel demand  
= 20 Billion USD  
= 260 Mio Mwhel/a  
= 50% of Indon. electr. demand  
= 2.4 Bil. USD/a (4 USc/kWh)

14 Mio ha PV  
= 14000 GWp  
= 20 Mil. GWhel/a  
= 80x of Indon. electr.demand  
= 90% of world el. demand  
= 800 Billion USD/a (4 USc/kWh)



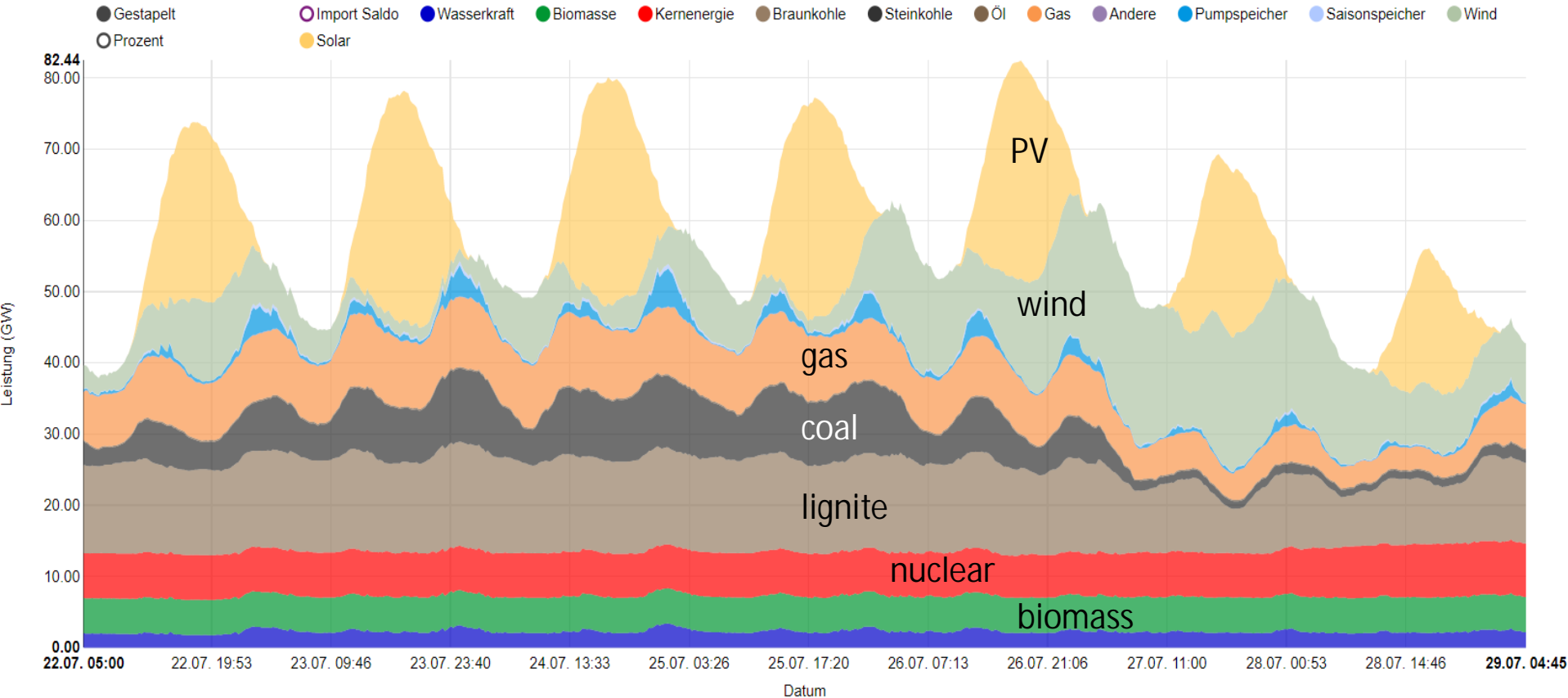
1 : 100

for electricity  
generation



# Indonesia's future Energy Mix ?

## Power Production Germany (week from 22.07. – 29.07.2019)



# How to charge the EVs? With coal or PV?

