

Siemens Gas and Power Overview of additive manufacturing, benefits and challenges industrial approach for AM

Pajazit Avdovic PhD, Senor Key Expert AM

EPIC Online Technology meeting on Advanced and Additive Metal Manufacturing

2020-10-19

Additive Manufacturing at Siemens Energy AB-Sweden (Finspong)





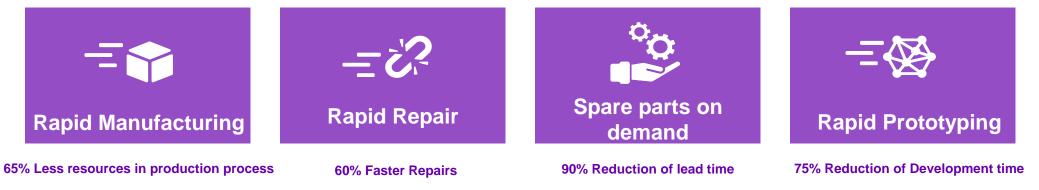
<complex-block>



Turbine manufacturing in Finspong since 1913 Part of Siemens since 2003 ;2020 Siemens Energy AB approx. 2,600 in Finspong & 100 in Trollhattan 40+3D printing machines operational worldwide10 years experience of SLM

> 1 500 000 operating hours on Siemens turbines
150 + specialized engineers

20+ components already commercially implemented 200 components identified for AM until 2025



Pajazit Avdovic | SE GP I SV TI AM ID 2

2020-10-19 Siemens Energy is a registered trademark licensed by Siemens AG.

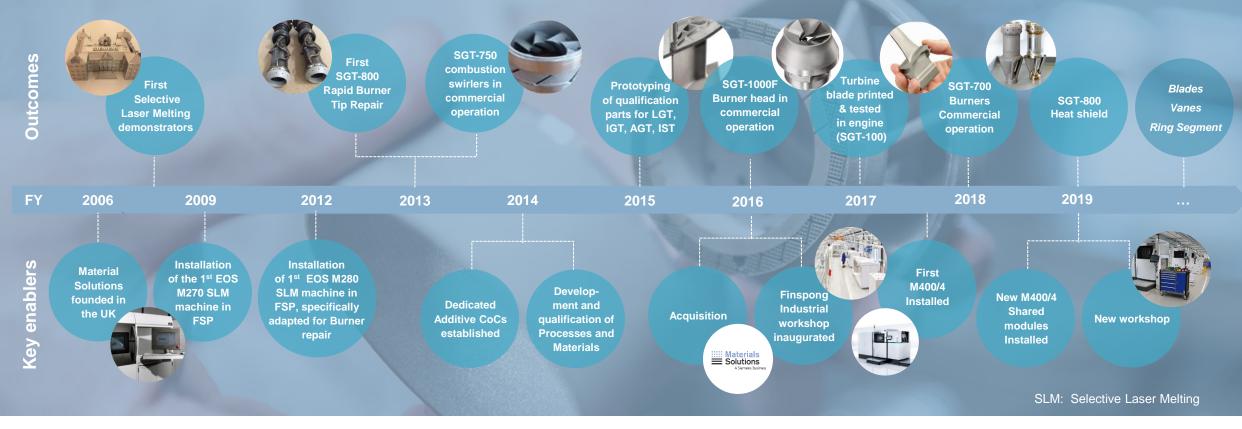
EPIC Online Technology meeting on Advanced and Additive Metal Manufacturing

Confidential © Siemens Energy, 2020

Siemens was an early adopter of SLM AM technology and have successfully scaled its production



From R&D to serial parts production with SLM technology in 10 years



Pajazit Avdovic | SE GP I SV TI AM ID 3

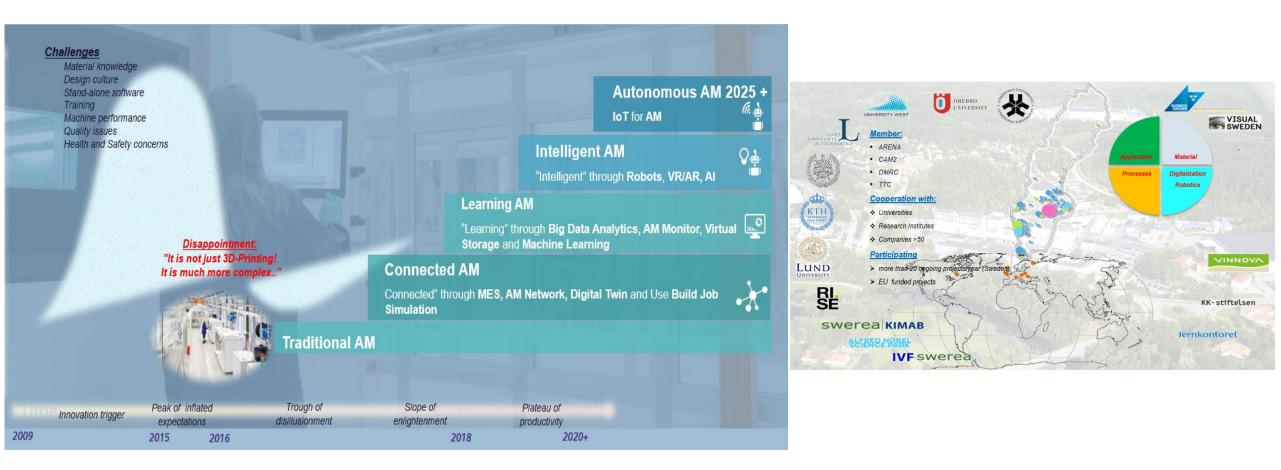
Confidential © Siemens Energy, 2020

Siemens Energy is a registered trademark licensed by Siemens AG.

EPIC Online Technology meeting on Advanced and Additive Metal Manufacturing

AM challenges, opportunities and collaboration





Pajazit Avdovic | SE GP I SV TI AM ID 4

Siemens Energy is a registered trademark licensed by Siemens AG.

2020-10-19

EPIC Online Technology meeting on Advanced and Additive Metal Manufacturing

Confidential © Siemens Energy, 2020

Additive Manufacturing at Siemens Energy AB





Pajazit Avdovic | SE GP I SV TI AM ID 5

Siemens Energy is a registered trademark licensed by Siemens AG.

2020-10-19

EPIC Online Technology meeting on Advanced and Additive Metal Manufacturing

Confidential © Siemens Energy, 2020

Thanks you for the attention!





Published by Siemens Energy Pajazit Avdovic PhD Innovation Manager at Additive Manufacturing Slottsvagen 2-6 612 83 Finspång Sweden Phone: +46 (0) 122 81479 Fax: +46 (122) 88712 Mobile: +46 702 85 82 35 E-mail: pajazit.avdovic@siemens.com

siemens-energy.com

Pajazit Avdovic | SE GP I SV TI AM ID

6

Siemens Energy is a registered trademark licensed by Siemens AG.

2020-10-19

EPIC Online Technology meeting on Advanced and Additive Metal Manufacturing