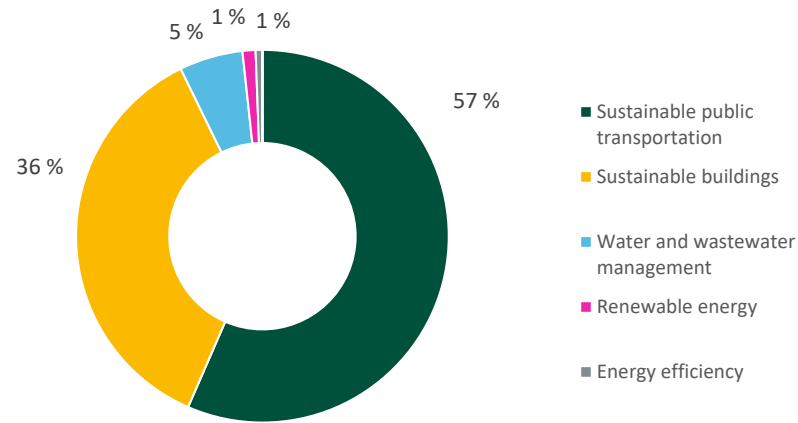
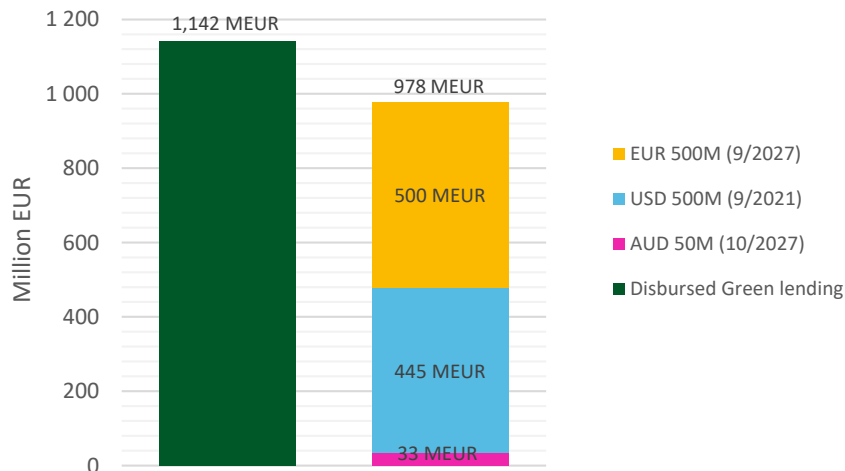


# Summary of MuniFin's Green bonds impact

Green project portfolio distribution based on disbursed amounts 31.12.2018



Green bonds issuance and disbursed Green lending



Project category	Outstanding disbursed amounts to projects, MEUR	CO <sub>2</sub> emissions in tonnes reduced/avoided annually	Impact, tonnes CO <sub>2</sub> e per MEUR
Sustainable public transportation	646.0	5,135	7.9
Sustainable buildings	414.2	3,032	7.3
Water and wastewater management	63.0	0	n/a
Renewable energy	12.9	11,803	915.0
Energy efficiency	6.7	1,945	290.3
<b>Total</b>	<b>1,142.8</b>	<b>21,915</b>	<b>20.3*</b>

Other impact indicators	Total
Annual renewable energy generation, MWh	15,240
Annual energy savings, MWh	22,203
<b>Impact attributable to green bond investors</b>	<b>86 %</b>
Total outstanding green bonds divided by total outstanding disbursed amounts to projects	
Where of impact attributable to Green Bond EUR 500m, maturing 7 September 2027	44 %
Where of impact attributable to Green Bond USD 500m, maturing 21 September 2021	39 %
Where of impact attributable to Green Bond AUD 50m, maturing 25 October 2027	3 %

\* Disbursed amount 1,079.8 MEUR with CO<sub>2</sub> impact