



UNITED ARAB EMIRATES  
MINISTRY OF INDUSTRY  
& ADVANCED TECHNOLOGY

# Industrial Investment Opportunities



# Extruded Aluminum Components of EVs

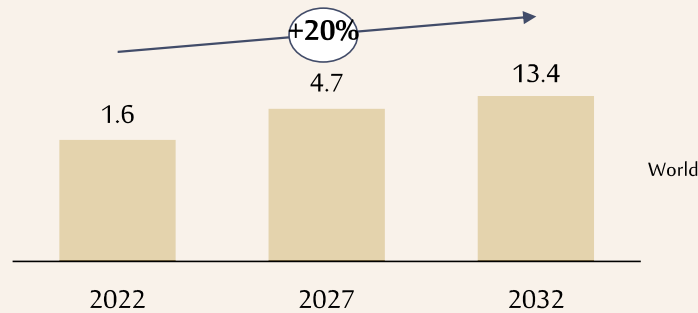
## Extruded Aluminum Components of EVs

The Aluminum Extrusion plant is to produce specific aluminum-based Electric Vehicle components: EV Battery Cell, Sunroof Frame, Vehicle Body, Chassis & Sub assemblies, Sill & Rockers, Front, and Rear bumpers

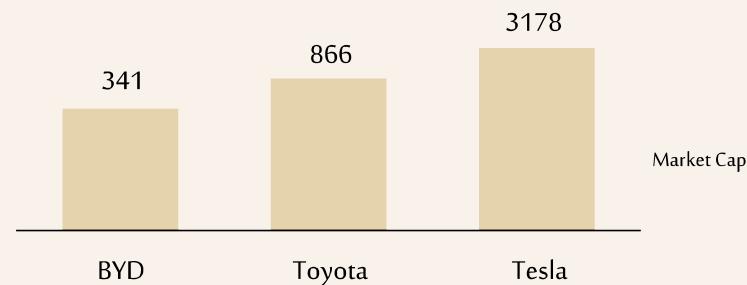
### Investment case

- Setup a large-scale an Aluminum Extrusion plant for specific Electric Vehicle components in UAE
- Investment size = AED 149 Mn
- Plant capacity = 15,000T per year
- Expected IRR = 15%
- Expected NPV = AED 67.6 Mn

### Global Market Size 2022 – 2032 (Tn AED)



### Top 3 Automobile Companies 2022 (Bn AED)

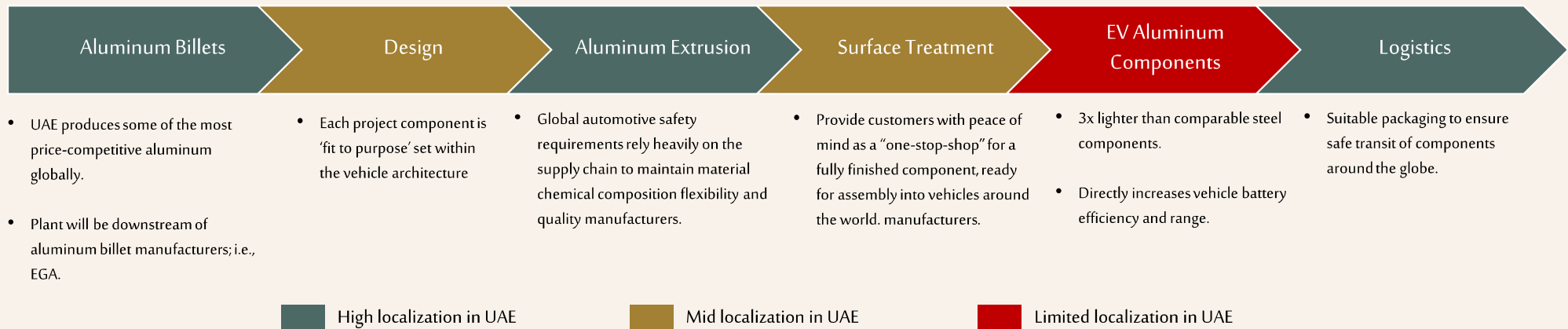


### Global trends & demand drivers

- Supportive regulatory frameworks: countries are strengthening key policies such as CO2 emissions standards and zero-emission vehicle (ZEV) mandates
- Electric Vehicle uses directly contributes to the reduction of environmental pollution and lessening dependency on oil
- Despite being more expensive than steel, the automobile industry is prepared to accept price due to the sheer scale of potential sales driven by its significant weight benefits
- Technological advancement in battery efficiency will drive adoption and the use of aluminum in manufacturing electric vehicles is a key to increasing efficiency.
- Estimated use of aluminum used in electric vehicles is 30% higher than in internal combustion engine cars

## Extruded Aluminum Components of EVs

### Value Chain Analysis



### Value proposition

- EV's are the future of the automobile industry companies Battery range is at the forefront of EV innovation
- Automobile weight is inversely correlated to vehicle efficiency and range
- Aluminium weighs about one third of steel per cubic foot.
- Source locally cost competitive aluminium billets
- Up to 40% of vehicle can be manufactured using aluminium
- Produce custom-made extruded components for an ultra high growth market
- Leverage a thriving local aluminium ecosystem and create downstream synergy
- Expected increase in demand for EV aluminium components due to establishment of multiple EV production facilities across the region

### Enabling Entities

- KIZAD:** Leverage upstream and downstream synergies within the ecosystem
- Khalifa Port:** Plant to serve global customers mainly, strategic and efficient supply chain is critical as well as global accessibility
- EDB:** Competitive price of debt capital will help make the investment opportunity more attractive
- EGA:** Partnering up with a major aluminum manufacturer will create major competitive advantages
- MoIAT:** Downstream of existing aluminum billet manufacturers