



# *Designing Net Zero Campervan Conversions*

- ▶ Who
- ▶ Project
- ▶ Challenges & Opportunities





# Who?

- ▶ Volkswagen Approved Converter - build to order
- ▶ North Berwick – single site
- ▶ Formed 2006 – plc
- ▶ £3m Annual Turnover
- ▶ UK Wide Customers – £65k
- ▶ 100% Employee Owned – Jan 2018

# Project - NMIS

“Manufacture of low carbon elevating roof for the VW ID Buzz EV – evaluate materials, engineering processes & advanced manufacturing methods”

- ▶ Funder – Transport Scotland - Zero Emissions Mobility
- ▶ Energy Technology Partnership – University of Strathclyde
- ▶ Lightweight Manufacturing Centre - NMIS

# Goals & Parameters

- Recycled Materials - wind turbine blades
- Reduced Weight - energy efficiency
- Reusable Design - extend end of life
- Recyclable Materials - avoid landfill
- Cost Effective Production - locally made
- Unique USP - wealthy market
- Export Potential - novel design

# Wider Motorhome Market Size

- ▶ UK - Annual Registrations – 15k (+5k pre reg)
  - Growing sector
  - Current global supply issues
- ▶ European Visitors
  - France - Annual Registrations – 20k
  - Germany - Annual Registrations – 50k



# EV Challenges & Opportunities

## Customers

- ▶ Range Anxiety – remote charging pinch points/times. Mobile charge stations?
- ▶ High Price Point – move towards leasing?

## Manufacturers

- ▶ Recycled Materials – current cost effective options?
- ▶ EV Layout - batteries & motor demand new layout approach?

*Thank You*

