

## Baseline Scenario for Airline Decarbonization

### 1. Current Emissions Assessment

- Evaluate current carbon emissions levels of airlines operating in the UAE.
- Identify primary sources of emissions, including fuel types and operational practices.

### 2. Regulatory and Industry Standards

- Review existing regulations and standards for emissions in the aviation industry.
- Understand SAF certification processes and green hydrogen initiatives.

### 3. Stakeholder Analysis

- Identify key stakeholders including airlines, government bodies, environmental groups, and local communities.
- Assess their roles, interests, and influence in decarbonization efforts.

### 4. Technology and Infrastructure Review

- Examine current aviation technologies and infrastructure that support or hinder decarbonization.
- Include an assessment of fuel supply chains, aircraft efficiency, and airport operations.

### 5. Community Engagement and Wellness Programs

- Assess current community engagement efforts by airlines and their impact.
- Consider wellness programs and educational initiatives related to environmental awareness and sustainability.

## Detailed Methodology for Decarbonization

### 1. Emissions Reduction Targets

- Set clear, measurable emissions reduction targets in line with industry standards and national goals.
- Include short-term, medium-term, and long-term objectives.

### 2. SAF Implementation and Certification

- Develop a roadmap for the transition to SAF, including sourcing, certification processes, and blending with conventional fuels.

- Collaborate with fuel suppliers, certification bodies, and regulatory agencies.

### 3. Green Hydrogen Exploration

- Initiate research and feasibility studies on the use of green hydrogen as an aviation fuel.
- Consider partnerships with energy companies and research institutions.

### 4. Infrastructure and Technology Upgrades

- Plan for necessary upgrades in infrastructure to accommodate new fuel types and improved operational efficiency.
- Invest in technology that supports emission reduction, such as more efficient aircraft and better flight management systems.

### 5. Community Engagement and Wellness Centers

- Establish community engagement programs focusing on environmental education and wellness.
- Develop wellness centers that promote sustainable practices and provide education on the aviation industry's decarbonization efforts.

### 6. Training and Capacity Building

- Implement training programs for airline staff and stakeholders on sustainable practices and new technologies.
- Foster a culture of sustainability within the industry.

### 7. Monitoring and Reporting

- Establish systems to monitor emissions and track progress towards reduction targets.
- Regularly report these findings to stakeholders and the public.

### 8. Collaboration and Partnerships

- Foster collaborations with other airlines, governments, and international bodies to share knowledge and resources.
- Engage in industry-wide initiatives to promote decarbonization.

This methodology provides a comprehensive framework for your partnership's efforts in decarbonizing the airline industry in the UAE. It emphasizes collaboration, innovation, and community involvement, ensuring a holistic and effective approach to achieving sustainability goals in aviation.