WIND ENERGY CONVERSION TECHNOLOGY

TECHNOLOGY ORIGINATED CENTURIES AGO

TWO BASIC AERODYNAMIC TYPES:

- 1. DRAG MACHINES RELY ON DIFFERENTIAL DRAG TO CREATE TORQUE
 - (TRADITIONAL) AERODYNAMICALLY SELF STARTING
 - HIGH SOLIDITY (MANY BLADES)
 - LOW SPEED HIGH TORQUE
 - TYPICAL APPLICATIONS PUMPING
 - GRINDING
 - EXAMPLES FARM WINDMILL
 - OIL DRUM SAVONIUS
 - CUP ANEMOMETER
- 2. LIFT MACHINES RELY ON AERODYNAMIC LIFT
 - (MODERN)
- MAY REQUIRE STARTING ASSISTANCE
- LOW SOLIDITY (FEW BLADES)
- RELATIVELY HIGH SPEED
- TYPICAL APPLICATIONS GENERATION
 - PUMPING