



EQUIPMENT EFFICIENCY

For most turf production enterprises, operating mobile plant and delivery trucks are the biggest energy costs to the business. Emerging technologies are providing good energy savings therefore they should be reviewed regularly. Clear expectations of good truck efficiency should also be standard.

Mobile Plant

De	livery	Truc	ks

1. Optimise plant size and type for all applications (load capacity, fuel type, comfort level, operator safety, etc)	1. Include contractors paying for their own fuel in contracts to encourage economical fuel use		
 2. Ensure hydraulics are correctly designed ar sized for the application 	ad 2. Ensure appropriate size and type of vehicle for the application		
3. Maintain hydraulics to the standard supplie (do not replace hoses with undersized hose)	ed 3. Select optimum engine standards (eg Euro IV) for fuel economy and emissions		
4. Choose optimum engine standards (eg. Eu IV) for fuel economy and emissions	ro 4. Optimise tyre type and maintenance for grip, noise, energy use, durability, etc		
5. Think about fuel types for the task (hybrid, natural gas, LPG, assisted diesel)	5. Monitor with GPS to establish efficient routes and loads		
6. Train the operators and keep refreshing the training for improved economy and vehicle li			
7. Make use of GPS and mobile technology	7. Think about fuel types for the task (hybrid, natural gas, LPG, assisted diesel)		
reporting, controls and remote reporting whe you can	 8. Consider battery powered air conditioning for vehicles that people occupy while the vehicle is idle so the engine can be turned off 9. Regularly review energy saving opportunities 		
8. Optimise tyre type and maintenance (pressure, nitrogen filled, etc)			
9. Regularly review new emerging technologi because these are changing quickly	because there are many		
Lubrication	Hydraulics		
1. Implement a maintenance program using t appropriate lubricants	1. Choose correct component sizing, cylinders, pumps, motors, pipe, hoses		
2. Chose lubricants for life, friction, reduction and environmental disposal	2. Use variable speed drive motors were appropriate		
3. When choosing equipment ask about built maintenance and lubrication systems	in 3. Check cooling for motors and pumps is adequate Horticulture		

Industry Fact Sheet is published by Turf Queensland as part of the Industry Development Services for the Queensland Turf Industry project. This project has been funded by Horticulture Innovation Australia Limited using the turf industry levy, co-investment from Turf Queensland and funds from the Australian Government

Turf Queensland Inc PO Box 1643, CLEVELAND, Qld, 4163 Phone: (07) 3488 0917 Fax: (07) 3488 0918 Email: info@qtpa.com.au Web: www.qtpa.com.au

Horticulture Innovation Australia Limited (HIA Ltd) makes no representations and expressly disclaims all warranties (to the extent permitted by law) about the accuracy, completeness, or currency of information in Industry Development Services for the Queensland Turf Industry.